

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

## Permit to Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

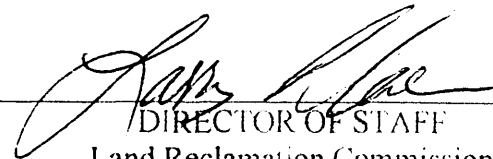
APAC-MISSOURI, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements in the application, a permit is hereby granted to engage in surface mining of limestone in the state of Missouri. The extent of the proposed mining operation(s) will be on 657 acres, more or less. The locations of the operation(s) under this permit is/are as follows: Renewal

See Attached List

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 28th day of July 2004

  
DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No 0688  
Effective Date 07/28/2004  
Expiration Date 07/25/2005

Mo: 780-4122 (6-95)

**Expiration Date – 07/25/2005**

[illegible]

RECEIVED

JUL - 9 2004

P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

OPERATION, COMPANY, PARTNERSHIP OR INDIVIDUAL

MISSOURI LAND  
RECLAMATION COMMISSION

July 8, 2004

APAC Missouri, Inc., Missouri Division

P.O. Box 1117

CITY

Columbia

STATE

MO

65205

Brett E. Geger

573-449-0886

## FEES: COMPLETE SECTION I OR SECTION II

Section I. Fees: Open pit operators and those mining more than five thousand (5,000) tons of sand and/or gravel:

1. To compute the site fee complete the columns and lines below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six (6) months per permit year pay \$150.00
		For sites operated six (6) months or more per permit year pay \$300.00
1. see attached list	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 4,800
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$

TOTAL SITE FEE \$ 4,800

2. Acreage fee: \$5 X 659 number of acres bonded \$ 3,295

3. Annual permit fee: \$ 500.00

4. Total Fee: Add totals from 1, 2, and 3 \$ 8,595

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$2,500.00

## SECTION II. FEES: Sand and/or gravel operators mining less than five thousand (5,000) tons per year:

1. Annual Permit Fee \$ 300.00

SIGNATURE OF OPERATOR

TITLE

DATE

Environmental Manager

July 8, 2004

Appeared before me this 8<sup>th</sup> day of July, 2004, BRETT GEGER to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEMENT SEAL

STATE

MISSOURI

COUNTY AND SWORN BEFORE ME THIS

8<sup>th</sup>

DAY

July

04

NOTARY PUBLIC

MY COMMISSION EXPIRES

WARREN L. HARMS

COUNTY (OR CITY OF ST. LOUIS)

BOONE

RUBBER STAMPED NAME AND SEAL BELOW

WARREN L. HARMS

Notary Public - Notary Seal

State of Missouri

Boone County

My Commission Expires March 25, 2004

EXPIRATION DATE

DATE APPROVED

PERMIT NUMBER

07/20/04

0688

07/25/05

ON JEFFERSON COUNTY ONLY APPROVED BY

Harry Heptis



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <b>Gallatin Quarry</b>		PERMIT NUMBER <b>0688</b>	
COMPANY NAME <b>APAC Missouri Inc.</b>			
COUNTY <b>Daviess</b>	1/4 SECTION <b>SE</b>	SECTION <b>8</b>	
TOWNSHIP <b>59</b>	RANGE <b>27W</b>	ACRES <b>32 (bonded) 253 (long range)</b>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <b>Limestone</b>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <b>Barney and Robin Esbeck</b>		
ADDRESS <b>RR#3</b>		
CITY <b>Gallatin</b>	STATE <b>MO</b>	ZIP CODE <b>64640</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <b>10/01/91</b>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <b>Same as Above</b>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.</b>		





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
MINE PLAN

P.O. BOX 176  
JEFFERSON CITY, MO 65102

APAC MO, Inc.

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME Limpus Quarries, Inc.

☒ LONG TERM, FOR PERIOD THROUGH DATE: 12/31/2011 2104 76 2/10/04

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Most of the area to be mined is steeply sloped and heavily wooded. Topsoil, if any, is very thin and rocky.

The area is bordered on the West by County Rd. #606, the South by County Rd. #607, and on the East by the Grand River.

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MISSOURI LAND  
RECLAMATION COMMISSION

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After initial clearing, existing topsoil will be removed and stockpiled for future use.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil will be stockpiled by dozers, loaders, and trucks.

The stockpiles will be shaped and seeded, if necessary, to protect them from erosion until such time they are used to complete reclaimed areas.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Stockpiled with loaders and trucks to be used in ongoing reclamation.

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RECLAMATION COMMISSION**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See maps and photos

YES NO



Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?



Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)



Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

Pasture

B. SEEDING OR PLANTING TIME

Spring or Fall

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Standard methods and equipment as dictated by circumstances.

Seed will be broadcast and/or drilled as required to establish revegetation.

DEC 3 2001

MISSOURI LAND

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Tall Fescue	15#	-----	-----
Ladino Clover	1#	-----	-----

REVEGETATION MIX #2

#2

PURPOSE OR LAND USE

Wildlife Cover

B. SEEDING OR PLANTING TIME

Spring or Fall

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Standard methods and equipment as dictated by circumstances.

Seed will be broadcast and/or drilled as required to establish revegetation

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	6#	-----	-----
Lespedeza	15#	-----	-----

**ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.**

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

All spoil areas will be graded to slopes traversable by farm equipment.

Highwalls will be sloped to 40° or less where practical and revegetated.

Pit floor areas not utilized for spoil disposal or water impoundment will be used for industrial development.

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MISSOURI LAND  
RECLAMATION CO. INC.**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done as depletion occurs and spoil is placed to finish grade in the mined-out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.

**REPLACEMENT OF TOPSOIL**

Topsoil will be replaced within 12 months after expiration of permit.

**REVEGETATION**

All topsoil areas will be seeded within 24 months after permit expires.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

35

Agricultural (pasture, cropland, and horticultural)

150

Development (residential, industrial, and recreational)

50

Water impoundments (for wildlife, agricultural, or development)

18

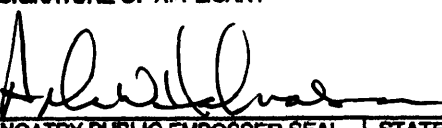
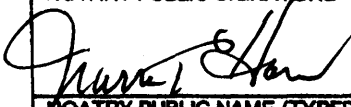
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MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intends to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.790, RSMO 2001, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed post-mining land uses.
4. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed seed mixtures.
5. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT 		TITLE  President		DATE  28 January 2004	
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) Boone		
	SUBSCRIBED AND SWORN BEFORE ME, THIS  28 <sup>th</sup> DAY OF JANUARY 2004		USE RUBBER STAMP IN CLEAR AREA BELOW		
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES 3/25/06	WARREN L. HARMS Notary Public - Notary Seal State of Missouri Boone County My Commission Expires March 25, 2006		
	NOTARY PUBLIC NAME (TYPED OR PRINTED)  WARREN L. HARMS				

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Hudson Hollow Quarry		PERMIT NUMBER 688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Miller	1/4 SECTION	SECTION 33	
TOWNSHIP 40N	RANGE 15W	ACRES 15	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Lake Ozark-Osage Beach Joint Sewer Treatment Plant Board		
ADDRESS Woodriver Landing Rd.		
CITY Lake Ozark	STATE MO	ZIP CODE 65065
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 9/1/2001
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2035

MISSOURI LAND  
RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 15 acres. Most of the mine site lies in an area which is moderate to steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of rocky clay hardpan and cherty soil. The area lies directly south of the Lake Ozark Municipal Wastewater Treatment plant.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-6

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Any present topsoil is removed with dozers and/or scrapers and placed in stockpile areas as needed for site development or used to cap perimeter buffer zone berms.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Any topsoil present will be redistributed on graded overburden areas as soon as practicable after grading or stored in a stable location in a stockpiled seeded with vegetation to protect against erosion.

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**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND  
RECLAMATION COMMISSION

Spoil material will be placed in fill areas as needed to accommodate site development and/or along the permit boundaries as needed for perimeter buffer zone berms.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

**YES NO**

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)   |

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RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

JUL 1 0 2002

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1 Fescue/Red Clover	PURPOSE OR LAND USE Commercial Development	B. SEEDING OR PLANTING TIME First optimal period following grading.
--	---	--

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

This site is being mined for development purposes. Overburden at the site will be used to facilitate operation site preparation as well as possible buffer zone perimeter berms. All unconsolidated material left along highwall fringes will be graded, disced and seeded to prevent erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
---------------------	---------------------	-----------------------------

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

JUL 10 2002

The floor of the quarry will be left open so it is suitable for development with a durable surface.

MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches of best available material.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

15

Water impoundments (for wildlife, agricultural, or development)

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By my signature, I attest to the following:

MISSOURI LAND  
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Timothy Brunk</i>		TITLE Vice President	DATE <i>7/9/2002</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) <i>Boone</i>	
SUBSCRIBED AND SWORN BEFORE ME, THIS <i>9<sup>th</sup></i> DAY OF <i>JULY</i> <i>10</i> 2002		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES <i>3/25/06</i>	WARREN L. HARMS Notary Public - Notary Seal State of Missouri Boone County My Commission Expires March 25, 2006
NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Deptis</i>		DATE APPROVED <i>07/18/02</i>	PERMIT NUMBER <i>0688</i>



FEB - 6 2002

**To be completed for each separate area of disturbance associated with mining operations.**

MISSOURI LAND

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED <input type="checkbox"/> LEASE		
<input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> VERBAL AGREEMENT		
<input type="checkbox"/> OTHER (DESCRIBE): _____		
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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FEB - 6 2002

P.O. BOX 176  
JEFFERSON CITY, MO 65102

MISSOURI LAND

RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2035

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 110 acres. Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of clay and rocks in varying depths.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and stored out of the way to be used on site as needed for future commercial or industrial development. Enough growth medium will be retained to accommodate vegetative growth on disturbed areas if needed. Stockpiles will be protected by seeding with fast growing vegetative cover during the next available growing season.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Overburden will be stored and seeded until used for site development.

FEB - 6 2002

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND  
RECLAMATION COMMISSION

Spoil material will be removed, stored, and protected on permitted acres for site development.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)   |

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**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

Fescue/Red Clover

PURPOSE OR LAND USE

Commercial Development

B. SEEDING OR PLANTING TIME

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, graded, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Pit will be left open for commercial or industrial development with a flat durable surface. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

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FEB 06 2002

MISSOURI LAND  
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches of best available material

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

110

Water impoundments (for wildlife, agricultural, or development)



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By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President	DATE <i>2/5/02</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) Boone
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>5<sup>th</sup></i> DAY OF <i>FEBRUARY</i> <i>10</i> 2002		USE RUBBER STAMP IN CLEAR AREA BELOW  WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES <i>3/25/02</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Hopkins</i>		DATE APPROVED <i>07/18/02</i>	PERMIT NUMBER <i>0688</i>

RECEIVED

AUG 23 2001

MISSOURI LAND  
RECLAMATION COMMISSIONMISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Marshall Quarry		PERMIT NUMBER 688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Saline	1/4 SECTION	SECTION 27	
TOWNSHIP 49N	RANGE 21W	ACRES 63	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Pearl Brooks		
ADDRESS Route 2, Box 17P		
CITY Marshall	MO	ZIP CODE 65340
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 6/29/2001
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 6/29/01
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.

RECEIVED

AUG 23 2001



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

MISSOURI LAND  
RECLAMATION COMMISSION  
P.O. BOX 178  
JEFFERSON CITY, MO 65102

## TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: August 31, 2037

## DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 63 acres. Most of the mine site lies in an area which is moderate to steeply sloped made up of wooded and open pasture areas. Topsoil ranges from sparse to fair but is mostly composed of rocky clay hard pan.

## OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

## A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-11

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil and Overburden are removed with dozers and/or scrapers and placed in fill areas as needed for site development or used for perimeter buffer zone berms.

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

NA

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MISSOURI LAND  
RECLAMATION COMMISSION

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil material will be placed in fill areas as needed to accommodate site development and/or along the permit boundaries as needed for perimeter buffer zone berms.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

Along the western permit boundary, the pit excavation will proceed no further than indicated on the attached detail map as referenced "Excavation Boundary". A berm will be constructed along the boundary between the undisturbed area and the excavation.

YES NO

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line? Highwall along north property line will be entirely removed.<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)   |

AUG 23 2001

MISSOURI LAND  
RECLAMATION COMMISSION**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1 Fescue/Red Clover	PURPOSE OR LAND USE Commercial Development	B. SEEDING OR PLANTING TIME First optimal period following grading.
--	---	--

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

This site is being developed for development purposes. Overburden at the site will be used to facilitate operation site preparation as well as possible buffer zone perimeter berms. All unconsolidated material left along highwall fringes will be graded, disced and seeded to prevent erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
---------------------	---------------------	-----------------------------

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

AUG 23 2001

**B. GRADING**MISSOURI LAND  
RECLAMATION COMMISSION

## DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The floor of the quarry will be left open so it is suitable for development with a durable surface.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

## GRADING

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

## REPLACEMENT OF TOPSOIL

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

## REVEGETATION

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

## AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12 inches of best available material.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

63

Water impoundments (for wildlife, agricultural, or development)

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MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President		DATE 8-23-01	
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) <i>BOONE</i>		
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23 <sup>rd</sup> DAY OF <i>August</i> 18 <i>2001</i>			USE RUBBER STAMP IN CLEAR AREA BELOW	
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/02		WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS				
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Deptis</i>			DATE APPROVED 01/07/02		PERMIT NUMBER 0688



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
SITE INFORMATION FORM

RECEIVED

To be completed for each separate area of disturbance associated with mining operations.

MAR 27 2001

SITE NAME OR NUMBER Marshall Quarry		PERMIT NUMBER 0688		MISSOURI LAND RECLAMATION COMMISSION	
COMPANY NAME APAC-Missouri, Inc.					
COUNTY Saline		TOWNSHIP T49N		SECTION 27	
RANGE 21W		ACRES 30			
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)					
MINERAL COMMODITY Limestone			ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Elsie Walker		
ADDRESS Rural Route 1		
CITY Marshall	STATE MO	ZIP CODE 65340
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT Aug. 24, 1998 Per telephone conversation w/APAC contact person. 05/23/01 <i>z/h</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT Aug. 24, 1998 Per telephone conversation w/APAC contact person. 05/23/01 <i>z/h</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

RECEIVED

MAR 27 2001

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Marshall Quarry		PERMIT NUMBER 0688		MISSOURI LAND RECLAMATION COMMISSION	
COMPANY NAME APAC-Missouri, Inc.					
COUNTY Saline	1/4 SECTION		SECTION 22 34 05/04/01		
TOWNSHIP 49N	RANGE 21W		ACRES 104		
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)					
MINERAL COMMODITY Limestone			ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

**MINE PLAN**

MARSHALL QUARRY

**RECEIVED**

SEP - 1 1994

P.O. BOX 176  
JEFFERSON CITY, MO 65102

MISSOURI LAND  
RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 31 July 2037

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The mine area is gradually sloped, open pasture and partially wooded. The soil is poor and rocky.

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

11 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the trees are removed by dozer, the soil will be removed by truck, loaders, and scrapers. The soil will be stockpiled on the perimeters of the pit. 12 inches of material will be striped and stockpiled.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be stockpiled with trucks, loaders, and scrapers. After piling is completed, the pile will be struck and seeded to prevent erosion.

MARSHALL QUARRY

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden will be removed and sold. The overburden that is not sold will be placed in the mined out portions of the pit and graded. This is an active spoil pile. Once it becomes inactive, it will be finished graded and used as an industrial site. See site map. Overburden consists of soil, dirt, cap rock, and other unconsolidated material.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None is anticipated.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See site map.

**YES NO**

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

## MARSHALL QUARRY

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1  1	PURPOSE OR LAND USE  pasture	B. SEEDING OR PLANTING TIME  spring (March-May)
------------------------------	------------------------------------	---

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

REVEGETATION MIX #2	PURPOSE OR LAND USE  topsoil protection	B. SEEDING OR PLANTING TIME
---------------------	---	-----------------------------

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Four wheeler and broadcast spreader.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

# MARSHALL QUARRY

## B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoils will be sloped to prevent erosion, also where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1.

## C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

### GRADING

I understand the regs. but I have an active spoils pile. Once it becomes inactive, the regulations will be complied with.

### REPLACEMENT OF TOPSOIL

Soil will be replaced to a depth of 12". Topsoil will be replaced after each area becomes inactive, within one year. Soil material will be placed on areas that need revegetation.

### REVEGETATION

The topsoil will be seeded during the first spring following replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) material:

12"

## D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

-0-

Agricultural (pasture, cropland, and horticultural)

2

Development (residential, industrial, and recreational)

6

Water impoundments (for wildlife, agricultural, or development)

126

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FEB 14 2001

MISSOURI LAND  
RECLAMATION COMMISSION

## Marshall Quarry

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.780 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Donald G. Month</i>		TITLE President	DATE 1/8/01
NOTARY PUBLIC EXPIRATION DATE	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) BOONE	
SUBSCRIBED AND SWORN BEFORE ME THIS 8 DAY OF JANUARY 2001		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/2002	WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Hopkins</i>	DATE APPROVED 05/14/01	PERMIT NUMBER 0688	

PERMIT NO. 0688

SITE NO. + LOT NAME

Marshall Qy



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

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FEB 14 2007

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 178  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Hall and Riley Quarries and Construction Company, Inc.	PERMIT NUMBER 0137
---	-----------------------

SITE(S)  
Boonville Quarry

ADDRESS  
1941 Boone Villa Drive, Suite D

CITY Boonville	STATE MO	ZIP CODE 65233
-------------------	-------------	-------------------

CONTACT PERSON Jerry Hall	PHONE NUMBER 660-882-2337
------------------------------	------------------------------

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Fireman's Fund Insurance Co.	5262728	7/1/87	\$42,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR  
APAC-Missouri, Inc.

ADDRESS  
P.O. Box 1117

CITY Columbia	STATE MO	ZIP CODE 65205
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CONTACT PERSON Christopher Schwedtmann	TELEPHONE NUMBER 573-449-0886
---	----------------------------------

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

**RECEIVED**

To be completed for each separate area of disturbance associated with mining operations.			MAR 27 2001	
SITE NAME OR NUMBER Boonville Quarry		PERMIT NUMBER 0688 MISSOURI LAND RECLAMATION COMMISSION		
COMPANY NAME APAC-Missouri, Inc.				
COUNTY Cooper	1/4 SECTION		SECTION 22 & 23	
TOWNSHIP 48N	RANGE 17W		ACRES 120	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)				
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) M.F. Oswald		
ADDRESS Route 3		
CITY Boonville	STATE MO	ZIP CODE 65233
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT June 1, 1957

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT June 1, 1957
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

**MINE PLAN**

BOONVILLE QUARRY

**RECEIVED**

SEP - 1 1994

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 31 JULY 2037

RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Most of the mine area is steeply sloped, open pasture, and partially wooded. The soil is poor and rocky.

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

10

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the trees are removed by dozer, the topsoil will be removed with trucks, loaders, and scrapers. The soil will be stockpiled on the perimeters of the pit. 12" of material will be striped and stockpiled.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be stockpiled with trucks, loaders, and scrapers. After piling is completed, the pile will be struck and seeded to prevent erosion.

BOONVILLE QUARRY

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden will be removed and sold. The overburden that is not sold will be placed in the mined out portion of the pit and graded. This is an active spoil pile. Once it becomes inactive it will be finished graded and used as an industrial site. See site map. Overburden consists of soil, dirt, cap rock, and other unconsolidated material.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

none is anticipated

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See site map.

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

## BOONVILLE QUARRY

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
1	pasture	spring (March-May)

## DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first spring following topsoil replacement the seedmix will be broadcast and harrowed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	topsoil protection	

## DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Fourwheeler and broadcast spreader.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

# BOONVILLE QUARRY

## B. GRADING

### DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoils will be sloped to prevent erosion, also where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1, except for a very steep area behind spoils pile. This area is shown on map.

## C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

### GRADING

I understand the regs. but I have an active spoils pile. Once it becomes inactive, the regulations will be complied with.

### REPLACEMENT OF TOPSOIL

Soil will be replaced to a depth of 12". Topsoil will be replaced after each area becomes inactive, within one year. Soil material will be placed on areas that need revegetation.

### REVEGETATION

The topsoil will be seeded during the first spring following replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) material:  
12"

## D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	-0-
Agricultural (pasture, cropland, and horticultural)	2
Development (residential, industrial, and recreational)	2
Water impoundments (for wildlife, agricultural, or development)	116

Boonville Quarry

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.780 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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FEB 14 2001

MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>Donald H. Montle</i>		TITLE President	DATE 1/8/01
NOTARY PUBLIC ENDORSEMENT	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) BOONE	
	SUBSCRIBED AND SWORN BEFORE ME THIS 8 DAY OF JANUARY 2001		
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES 3/25/2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Sammy Dept's</i>		DATE APPROVED 05/14/01	PERMIT NUMBER 0688



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

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FEB 14 2007

P.O. BOX 178  
JEFFERSON CITY, MO 65102

MISSOURI LAND  
RECLAMATION COMMISSION

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Hall and Riley Quarries and Construction Company, Inc.	PERMIT NUMBER 0137
---	-----------------------

SITE(S) Hwy 240 Quarry
---------------------------

ADDRESS 1941 Boone Villa Drive, Suite D
--

CITY Boonville	STATE MO	ZIP CODE 65233
-------------------	-------------	-------------------

CONTACT PERSON Jerry Hall	PHONE NUMBER 660-882-2337
------------------------------	------------------------------

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Fireman's Fund Insurance Co.	5262728	7/1/87	\$42,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.
---

ADDRESS P.O. Box 1117
--------------------------

CITY Columbia	STATE MO	ZIP CODE 65205
------------------	-------------	-------------------

CONTACT PERSON Christopher Schwedtmann	TELEPHONE NUMBER 573-449-0886
---	----------------------------------

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Consolidated, LLC.	0570, 0040	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MAR 27 2001

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Hwy 240 Quarry		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Saline	1/4 SECTION	SECTION 2	
TOWNSHIP 51N	RANGE 19W	ACRES 20	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Alicia Gotmer, Darlene Johnson, Diane Bennett		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT May 5, 1997
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT May 5, 1997
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

RECEIVED

MAR 27 2001

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Hwy 240 Quarry		PERMIT NUMBER 0688	MISSOURI LAND RECLAMATION COMMISSION
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Saline	1/4 SECTION	SECTION 2	
TOWNSHIP 51N	RANGE 19W	ACRES 5	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Wayne Brown		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT May 5, 1997
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT May 5, 1997
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME Hall & Riley Quarries & Const. Co. Inc.

☒ LONG TERM, FOR PERIOD THROUGH DATE: 10 May 2016

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Six of the twenty five acres are an old quarry pit. Four of the remaining twenty five acres are industrial quality; they have had all the top soil and dirt removed. Aproximatly two additional acres have been used for old spoil piles. The remaining land is partially covered with brush ( $\frac{1}{2}$  acre). The rest of the land is very poor quality farm land. The soil is very sandy. It will not hold moisture making very difficult to use as farmland. The topography is partially sloped to steep slopes.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Undisturbed Acres: 12" minimum soil mat INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Dozers and scrapers, or trucks and loaders.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be stockpiled with trucks, loaders, and scrapers. After piling is completed, the pile will be struck and seeded to prevent erosion.

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MAY 12 1997

MISSOURI LAND  
RECLAMATION COMMISSION

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden will be removed and sold. The overburden that is not sold will be placed in the active spoils pile. Overburden may consist of soil, dirt, and cap rock.

see site map

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

none

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

see site map

**RECEIVED**  
MAY 12 1997  
MISSOURI LAND  
RECLAMATION COMMISSION

**YES NO**

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**
**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Pasture

Spring (March-May)

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed. Reseeding will be done as needed to control erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa Fescue Kentucky 21	15 lbs./A 25 lbs./A		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Topsoil Protection

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Fourwheeler and broadcast spreader.

**RECEIVED**  
MAY 12 1997

MISSOURI LAND  
RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa Fescue Kentucky 21	15 lbs./A 25 lbs./A		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND  
RECLAMATION COMMISSION

All spoils will be sloped to prevent erosion, and where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1, unless the original topography was so, except for very steep areas behind spoil piles.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

I understand the regulations, but this will be an active spoil pile. Once the spoil pile becomes inactive, the grading, topsoil replacement, and revegetation will be done as specified in the regs.

**REPLACEMENT OF TOPSOIL**

Soil material will be placed on spoil piles with in one year after each area becomes inactive, soil will be replaced to a depth of 12". No soil will be placed in the area of water impoundment.

**REVEGETATION**

The topsoil will be seeded during the first spring following replacement.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

OK

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

-0-

Agricultural (pasture, cropland, and horticultural)

-0-

Development (residential, industrial, and recreational)

5

Water impoundments (for wildlife, agricultural, or development)

20

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FEB 14 2001

MISSOURI LAND  
RECLAMATION COMMISSION

Hwy 240 Quarry

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.780, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Donald D. Menth</i>		TITLE President	DATE 1/8/01
NOTARY PUBLIC EXPIRATION SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) Boone	
SUBSCRIBED AND SWORN BEFORE ME THIS 8 DAY OF JANUARY 2001		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/2002	WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Harry Deptis</i>		DATE APPROVED 05/14/01	PERMIT NUMBER 0688

MO 780-1337 (12-91)

PAGE 5 OF 8

PERMIT NO. \_\_\_\_\_ SITE NO. +/- OR NAME \_\_\_\_\_

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Graham Quarry		PERMIT NUMBER 688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Miller	1/4 SECTION		SECTION 5
TOWNSHIP 38N	RANGE 14W		ACRES 45
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Perry and Colleen Graham		
ADDRESS P.O. Box 350		
CITY Kaiser	STATE MO	ZIP CODE 65047
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		

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AUG 23 2001



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

## TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

## DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 45 acres. Most of the mine site lies in an area which is moderate to steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of rocky clay hardpan and cherty soil.

## OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

## A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-6 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and/or scrapers and placed in fill areas as needed for site development or used for perimeter buffer zone berms.

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

NA

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil material will be placed in fill areas as needed to accommodate site development and/or along the permit boundaries as needed for perimeter buffer zone berms.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line?<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)  |



**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1 Fescue/Red Clover	PURPOSE OR LAND USE Commercial Development	B. SEEDING OR PLANTING TIME First optimal period following grading.
--	---	--

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

This site is being developed for development purposes. Overburden at the site will be used to facilitate operation site preparation as well as possible buffer zone perimeter berms. All unconsolidated material left along highwall fringes will be graded, disced and seeded to prevent erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
---------------------	---------------------	-----------------------------

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

AUG 23 2001

**B. GRADING**MISSOURI LAND  
RECLAMATION COMMISSION**DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The floor of the quarry will be left open so it is suitable for development with a durable surface.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches of best available material.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

45

Water impoundments (for wildlife, agricultural, or development)

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AUG 23 2001

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President	DATE 8-23-01
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) Boone
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23 <sup>rd</sup> DAY OF August 18 2001		USE RUBBER STAMP IN CLEAR AREA BELOW WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES 3/25/02	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Terry Hopkins</i>		DATE APPROVED 11/13/01	PERMIT NUMBER 0688



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AUG 23 2001



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.		
SITE NAME OR NUMBER Quarry #14		PERMIT NUMBER 688
COMPANY NAME APAC-Missouri, Inc.		
COUNTY Miller	1/4 SECTION	SECTION 20
TOWNSHIP 40N	RANGE 15W	ACRES 7
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Osage National Golf Course		
ADDRESS Osage Hills Road, P.O. Box 1210		
CITY Lake Ozark	STATE MO	ZIP CODE 65049
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

MISSOURI LAND  
RECLAMATION COMMISSION  
P.O. BOX 176  
JEFFERSON CITY, MO 65102

## TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

## DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 7 acres. Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of rocky clay hardpan.

## OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

## A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and placed in fill areas as needed for site development. Excess overburden will be sold for fill off site.

## DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

NA

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MISSOURI LAND  
RECLAMATION COMMISSION**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil material will be placed in fill areas as needed to accommodate future site development and along the eastern permit boundary as a site berm for Osage National Golf Course.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? See MODOT permit.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation start at or within fifty feet (50') of any property line? A fence and/or berm has will be installed. (NOTE: If the answer is "yes", a safety barrier may be needed.)  |

AUG 23 2001

MISSOURI LAND  
RECLAMATION COMMISSION**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
Fescue/Red Clover	Commercial Development	First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

This site is being developed for commercial or industrial purposes on the Osage National Golf Course. On the golf course property, the fringes and backslope areas will be prepared and seeded according to standard practices of the LRP.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
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**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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MISSOURI LAND  
RECLAMATION COMMISSION**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The floor of the quarry will be left open so it is suitable for development with a durable surface. There will be a highwall left next to the golf course property with a well-vegetated earthen berm and chain-link fence placed on the border for safety and security.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches of best available material.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

7

Water impoundments (for wildlife, agricultural, or development)



AUG 23 2001

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Reck L. Bah</i>		TITLE Vice President		DATE 8-23-01	
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) Boone		
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23 <sup>RD</sup> DAY OF August 2001			USE RUBBER STAMP IN CLEAR AREA BELOW	
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/02		WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS				
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Deptis</i>			DATE APPROVED 11/13/01		PERMIT NUMBER 0688



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

RECEIVED

JUL 24 2000

MISSOURI LAND RECLAMATION COMMISSION  
P.O. BOX 178  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Bentley Trucking, Inc.	PERMIT NUMBER 0529
---	-----------------------

SITE(S)  
Caldwell County Quarry #1

ADDRESS  
504 Shamrock

CITY Clarence	STATE MO	ZIP CODE 63437
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CONTACT PERSON Lola Bentley	PHONE NUMBER 660-699-3635
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**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Community State Bank of Shelbina	CD #8288	12/18/93	\$11,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR  
APAC-Missouri, Inc.

ADDRESS  
P.O. Box 1117

CITY Columbia	STATE MO	ZIP CODE 65202
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CONTACT PERSON Christopher Schwedtmann	TELEPHONE NUMBER 573-449-0886
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List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Asphalt, Inc.	0279	Limestone
Lake Ozark Construction Industries, Inc.	0460	Limestone
Prestage Quarry and Materials	0393	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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JUL 24 2001

MISSOURI LAND  
RECLAMATION COMMISSION

## TRANSFER OF RECLAMATION RESPONSIBILITY

In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 0529, which consists of 15 acres located in Section 1 & 12, 7, Township 57N, 57N, Range 27W, 26W, Caldwell County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Bentley Trucking, Inc. FORMER OPERATOR

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.780 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE <i>Donald G. Mantle</i>	NAME Donald G. Mantle	TITLE Division President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE <i>7/16/01</i>
SIGNATURE <i>Lola G. Bentley</i>	NAME Lola Bentley	TITLE President
CURRENT OPERATOR COMPANY Bentley Trucking, Inc.		DATE <i>7/16/01</i>

Appeared before me this 16 day of July, 2001, DONALD G. MANTLE & LOLA BENTLEY to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>MISSOURI</u>	COUNTY (OR CITY OF ST. LOUIS) <u>BOONE</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>16</u> DAY OF <u>JULY</u> , <u>2001</u>	
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES <u>3/25/2002</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>	
USE RUBBER STAMP IN CLEAR AREA BELOW		
WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Harkins</i>	TITLE <u>LR5 III</u>	DATE APPROVED <u>08/24/01</u>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

RECEIVED

JUL 24 2001

To be completed for each separate area of disturbance associated with mining operations				MISSOURI LAND RECLAMATION COMMISSION	
SITE NAME OR NUMBER Nettleton Quarry			PERMIT NUMBER 0688		
COMPANY NAME APAC-Missouri, Inc.					
COUNTY Caldwell		1/4 SECTION		SECTION 1 & 12 6 & 7	
TOWNSHIP 57N 57N		RANGE 27W 26W		ACRES 120 total	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)					
MINERAL COMMODITY Limestone			ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) J.B. Cornelius					
ADDRESS RR 1, Box 72					
CITY Hamilton		STATE MO		ZIP CODE 64644	
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):				DATE OF AGREEMENT 3/15/93	
				<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT	

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.					
ADDRESS P.O. Box 1117					
CITY Columbia		STATE MO		ZIP CODE 65205	
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):				DATE OF AGREEMENT	
				<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT	
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.					

RECEIVED

JUL 24 2007



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

MISSOURI LAND  
RECLAMATION COMMISSION P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: July 25, 2037

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This Long Term Mine Plan area consists of 120 acres of previously mined ground surrounded by gently rolling hills. Surrounding areas have an agricultural land use. Approximately half of the mine plan area has been disturbed by the previous mine operators for over sixty years. Little to no topsoil remains on those area. Topsoil on undisturbed areas is approximately 6 to 12 inches in depth. The vegetation on undisturbed areas consists mostly of scrub brush, trees, and where managed, crops. A county road running north and south defines the eastern border of the mine area from the current crusher and stockpile area.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Remaining topsoil will be removed with dozers and/or scrapers and either be stored in a stable location or used promptly on reclaimed areas. A combination of topsoil and best available material will be used to establish enough growth medium to accommodate vegetative growth on disturbed areas if needed.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

All stockpiles will be protected from erosion by seeding the piles with a fast growing vegetative cover during the first available growing season.

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**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

JUL 24 2001

MISSOURI LAND  
RECLAMATION COMMISSION

Spoil material will be used as fill in mined out pit areas and highwalls will be backfilled when possible. Areas along property lines and road ways will be reclaimed first.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO



Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?



Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)



Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

JUL 24 2001

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

MISSOURI LAND

RECLAMATION COMMISSION

**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

Fescue/Red Clover

PURPOSE OR LAND USE

Commercial Development

B. SEEDING OR PLANTING TIME

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be backfilled with spoil material where possible and graded to facilitate a development land use. Two final pit impoundments will be left at the northern and western extents of the mine plan area. Reclaimed areas that will be seeded will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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JUL 24 2001

MISSOURI LAND

RECLAMATION COMMISSION

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Pit areas will be reclaimed to development and water land uses. Spoil material will be used to fill in mined out portions of the pit where practicable and reclaim areas around final pit impoundments. Any areas to be seeded with vegetative cover will be covered with a suitable root growth material composed of 12 inches of the best available material within the mine plan area.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

*12" of Best Available Material*

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

110

Water impoundments (for wildlife, agricultural, or development)

10



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JUL 24 2001

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Rich L. Bach</i>		TITLE Vice President	DATE 7/23/01
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) Boone	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23 <sup>rd</sup> DAY OF July 2001		USE RUBBER STAMP IN CLEAR AREA BELOW  WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES 3/25/2002	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry D. P. K. S.</i>		DATE APPROVED 08/24/01	PERMIT NUMBER 0688



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

**RECEIVED**  
JAN 23 1996

P.O. BOX 176  
JEFFERSON CITY, MO 65102

MISSOURI LAND

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER <b>SOUTHWEST LIME QUARRY</b>		PERMIT NUMBER <b>0439</b>
SITE(S) <b>LINN CREEK</b>		
ADDRESS <b>P.O. BOX 3044</b>		
CITY <b>LINN CREEK</b>	STATE <b>MISSOURI</b>	ZIP CODE <b>65202</b>
CONTACT PERSON <b>DAVID FOREMAN</b>		PHONE NUMBER <b>417-865-1555</b>

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**  
List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
AMERICAN INSURANCE INSURANCE COMPANY	27307392	FEB. 23, 1996	57,000.00

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR <b>APAC MISSOURI, INC.</b>		
ADDRESS <b>1591 A PRATHERSVILLE ROAD</b>		
CITY <b>COLUMBIA</b>	STATE <b>MISSOURI</b>	ZIP CODE <b>65202</b>
CONTACT PERSON <b>JEFF ALEXANDER</b>		TELEPHONE NUMBER <b>573-449-0886</b>

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
LIMPUS QUARRIES, INC.	0570, 0040	LIMESTONE
GRAND RIVER QUARRY, INC.	0564	LIMESTONE
CITY WIDE ASPHALT, INC.	0279	LIMESTONE

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

RECEIVED  
JAN 23 1998

To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER  LINN CREEK <i>South Site</i> <sup>14th</sup> 6/23/99		PERMIT NUMBER  0439	
COMPANY NAME  APAC MISSOURI, INC.			
COUNTY  CAMDEN	1/4 SECTION	SECTION  16	
TOWNSHIP  38N	RANGE  16W	ACRES  299	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY  LIMESTONE / DOLOMITE		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)  DAVID L. AND NANCY J. HANCOCK		
ADDRESS  NO. 1 OAK RIDGE COMMUNITY		
CITY  SUNRISE BEACH	STATE  MISSOURI	ZIP CODE  65079
SOURCE OF RIGHT TO MINE (CHECK ONE):  <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____  <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT  1-1-96

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)  SAME AS OWNER		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):  <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____  <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

MINE PLAN

RECEIVED  
FEB 23 1996

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: 2010

MISSOURI LAND  
RECLAMATION COMMISSION

Linn Creek

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers 2.99 acres.

Majority of site is steeply rolling with brush and trees. Soil is poor and thin with rock outcropping.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6 to 12" INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Push with dozer and possibly stockpile with scrapers

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Push into piles with dozer or scraper. Place in areas away from channelized water; seed seasonally.

RECEIVED

Linn Creek FEB 23 1996

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Little to no spoil expected. What spoil there is will be stockpiled and saved and used to level up resulting floor and slope possible highwalls. for reclamation.

MISSOURI LAND RECLAMATION COMMISSION

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

N/A

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit located in center of SE 1/4 of S. 16 and will progress southerly into hillside. Next will move west into hillside

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

# RECEIVED

FEB 23 1996

<b>RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.</b>		<i>Linn Creek</i>	
<b>A. REVEGETATION</b> (Attach additional sheets, if needed)		MISSOURI LAND RECLAMATION COMMISSION	
REVEGETATION MIX #1	PURPOSE OR LAND USE <i>Industrial</i>	SEEDING OR PLANTING TIME <i>spring or fall</i>	
DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING  <i>Hand broadcast minimum</i>			

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
<i>Fescue Clover (red)</i>	<i>30 7<del>2</del></i>		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING		

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

RECEIVED  
 FEB 23 1996  
 MISSOURI LAND  
 RECLAMATION COMMISSION

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Mine floor will be left flat and walls will be  
 graded back to ~~3:1~~ slopes.  
 4:1 ~~3:1~~

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

will be advancing as pit does which will be  
 dictated by rock sales. Final grading to be done  
 one year after permit expiration or renewal of permit  
 under which surface mining disturbance occurred.

**REPLACEMENT OF TOPSOIL**

Replace topsoil as necessary on slopes within  
 1 year of permit expiration or mining stoppage.  
 sequential with grading.

**REVEGETATION**

Revegetate within first planting season of replacement  
 of topsoil. no later than one year following  
 permit expiration or renewal of permit under  
 which surface mining disturbance occurred.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12"

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

299

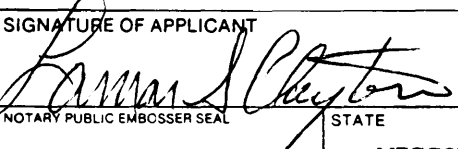

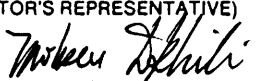
Water impoundments (for wildlife, agricultural, or development)

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED  
JAN 23 1998

MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT 		TITLE PRESIDENT	DATE JAN 23 1998
NOTARY PUBLIC EMBOSSEER SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) Boone	
SUBSCRIBED AND SWORN BEFORE ME, THIS 23rd DAY OF JANUARY 19 98		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE 		MY COMMISSION EXPIRES March 9, 2001	TAMARA K PARKS NOTARY PUBLIC STATE OF MISSOURI BOONE COUNTY MY COMMISSION EXP MAR. 9, 2001
NOTARY PUBLIC NAME (TYPED OR PRINTED) Tamara K. Parks			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 3/19/98	PERMIT NUMBER 688





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

RECEIVED  
JAN 11 1997

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 178  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Lake Ozark Construction Industries, Inc.	PERMIT NUMBER 0460
---	-----------------------

SITE(S) LOCI #8
--------------------

ADDRESS P.O. Box 888
-------------------------

CITY Osage Beach	STATE MO	ZIP CODE 65065
---------------------	-------------	-------------------

CONTACT PERSON Mike Atkisson	PHONE NUMBER 573-348-1515
---------------------------------	------------------------------

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$57,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.
---

ADDRESS 1591 A Prathersville Road
--------------------------------------

CITY Columbia	STATE MO	ZIP CODE 65202
------------------	-------------	-------------------

CONTACT PERSON Christopher Schwedtmann	TELEPHONE NUMBER 573-449-0886
---	----------------------------------

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
DYL Quarries, Inc.	0260	Limestone
Prestage Quarry and Materials, Inc.	0393	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

RECEIVED  
JAN 11 1999

MISSOURI LAND  
RECLAMATION COMMISSION  
TRANSFER OF RECLAMATION RESPONSIBILITY

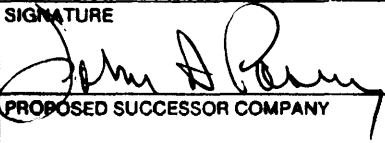
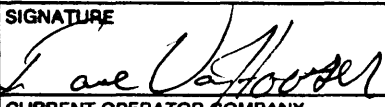
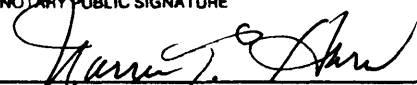

In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 460, which consists of 35 acres located in Section 16, Township 38N, Range 16W, Camden County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Lake Ozark Construction Industries, Inc. FORMER OPERATOR

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 		NAME John A. Pasley	TITLE Division President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division			DATE 1-6-99
SIGNATURE 		NAME Dave VanHooser	TITLE General Manager
CURRENT OPERATOR COMPANY Lake Ozark Construction Industries, Inc.			DATE 1-6-99
<p>Appeared before me this <u>6</u> day of <u>JAN.</u>, 19 <u>99</u>, <u>JOHN PASLEY &amp; DAVE VANHOOSER</u> to me personally known, who executed the above as their free acts and deeds.</p>			
NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>MISSOURI</u>		COUNTY (OR CITY OF ST. LOUIS) <u>BOONE</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>6</u> DAY OF <u>JAN</u> , 19 <u>99</u>		USE RUBBER STAMP IN CLEAR AREA BELOW  JAN 26 2002
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES <u>3/25/02</u>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		TITLE <u>LARS TUT</u>	DATE APPROVED <u>02/26/99</u>



RECEIVED  
JAN 11 1999

**MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
SITE INFORMATION FORM**

**To be completed for each separate area of disturbance associated with mining operations.**

RECLAMATION COMMISSION

SITE NAME OR NUMBER Quarry #8 Linn Creek North Site <i>to h</i> 6/23/99		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Camden	1/4 SECTION		SECTION 16
TOWNSHIP 38N	RANGE 16W		ACRES 63
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)		
APAC-Missouri, Inc.		
ADDRESS		
1591A Prathersville Road		
CITY	STATE	ZIP CODE
Columbia	MO	65202
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED		
<input checked="" type="checkbox"/> WARRANTY DEED		
<input type="checkbox"/> OTHER (DESCRIBE):		
<input type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

RECEIVED  
JAN 11 1999

MISSOURI LAND RECLAMATION COMMISSION  
P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 63 acres. Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of clay and rocks in varying depths.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and stored out of the way to be sold or used on site as needed for future commercial or industrial development. Enough growth medium will be retained to accommodate vegetative growth on disturbed areas where needed. Stockpiles will be protected by seeding with fast growing vegetative cover during the next available growing season.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Overburden will be stored and seeded until sold or used for site development.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil material will be removed, stored, and protected on permitted acres for site development or sold as fill material off-site. Spoil material will be placed to the north, east, and west sides of the pit area.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation start at or within fifty feet (50') of any property line? A barrier will be installed if needed. (NOTE: If the answer is "yes", a safety barrier may be needed.)  |

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

MISSOURI LAND

**A. REVEGETATION** (Attach additional sheets, if needed)

**RECLAMATION COMMISSION**

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Fescue/Red Clover

Commercial Development

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

**ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.**

DECEIVED  
JAN 11 1999

**GRADING**

MISSOURI LAND  
RECLAMATION COMMISSION

**DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Pit will be left open for commercial or industrial development with a flat durable surface. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

63

Water impoundments (for wildlife, agricultural, or development)

RECEIVED  
JAN 11 1999

By my signature, I attest to the following:

MISSOURI LAND  
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Baker</i>		TITLE Vice President		DATE 1/11/99	
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri			COUNTY (OR CITY OF ST. LOUIS) BOONE	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 11 DAY OF JAN 1999			USE RUBBER STAMP IN CLEAR AREA BELOW  My Commission Expires 03/25/2002	
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/02		
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS				
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Sammy Deptis</i>			DATE APPROVED 02/26/99		PERMIT NUMBER 0668



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

**RECEIVED**  
JAN 23 1998

P.O. BOX 176  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER SOUTHWEST LIME QUARRY		PERMIT NUMBER 0439
SITE(S) BUSIEK		
ADDRESS P.O. BOX 6288		
CITY SPRINGFIELD	STATE MISSOURI	ZIP CODE 65801
CONTACT PERSON DAVID FOREMAN		PHONE NUMBER 417-865-1555

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
AMERICAN INSURANCE INSURANCE COMPANY	27307392	FEB. 23, 1996	57,000.00

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC MISSOURI, INC.		
ADDRESS 1591 A PRATHERSVILLE ROAD		
CITY COLUMBIA	STATE MISSOURI	ZIP CODE 65202
CONTACT PERSON JEFF ALEXANDER		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
LIMPUS QUARRIES, INC.	0570, 0040	LIMESTONE
GRAND RIVER QUARRY, INC.	0564	LIMESTONE
CITY WIDE ASPHALT, INC.	0279	LIMESTONE

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

RECEIVED  
JAN 23 1998



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <b>BUSIEK</b>		PERMIT NUMBER <del>0439</del> 0688 <i>Zh</i>
COMPANY NAME <b>APAC MISSOURI, INC.</b>		
COUNTY <b>CHRISTIAN</b>	1/4 SECTION	SECTION <b>15</b>
TOWNSHIP <b>25N</b>	RANGE <b>21W</b>	ACRES <b>27</b>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY <b>LIMESTONE / DOLOMITE</b>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <b>APAC MISSOURI, INC.</b>		
ADDRESS <b>1591 A PRATHERSVILLE ROAD</b>		
CITY <b>COLUMBIA</b>	STATE <b>MISSOURI</b>	ZIP CODE <b>65202</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT  
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <b>APAC MISSOURI, INC.</b>		
ADDRESS <b>1591 A PRATHERSVILLE ROAD</b>		
CITY <b>COLUMBIA</b>	STATE <b>MISSOURI</b>	ZIP CODE <b>65202</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT  
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: Dec. 31, 2009

*Busick Q.*

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Masters-Jackson Quarry - Busick Portable Plant #3

This plan covers an area of approximately 27 acres. Most of the mine area consists of steeply sloped rocky outcrop covered with brush and trees. Topsoil is very thin to non-existent (see Christian Co. soil survey enclosed). The area contains a mine (map #4) which has been worked several times in the past with little if any topsoil saved.

**RECEIVED**

MAR 01 1994

MISSOURI LAND  
RECLAMATION COMMISSION

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

See below and pictures

0-2 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The topsoil is very thin and once the brush and trees are cleared with a dozer or loader, topsoil will be pushed up 20 feet ahead of pit excavation. Most of existing pit topsoil is non-existent. Northeast side of pit has been stripped (see pictures 1 & 2) with topsoil left in pile.

*Inspector's file has photos.*

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil will be placed in stockpiles near the pit area. The stockpiles will be shaped and seeded with grass to protect from erosion.

**B. SPOIL**

RUSTIER

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil should be limited, but when encountered will be used against the high walls for slopes.

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MAR 01 1994

MISSOURI LAND  
RECLAMATION COMMISSION**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit is oriented in the center of property (see map #4). The mine will continue to the north-northwest into the hill once the east end is mined first to straighten out the wall.

**YES NO**☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**
*BUSIER*
**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE Development	B. SEEDING OR PLANTING TIME Fall Spring
---------------------	------------------------------------	--

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Aug 15-Oct 15 May-July

Seed will be broadcast and manipulated during first seeding season following topsoil placement.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard grass	20		
Medium red clover	8		

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MISSOURI LAND

RECLAMATION COMMISSION

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. RECLAMATION COMMISSION
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Spoil will be graded to slopes along high wall and floor will be left clean and flat.

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MAR 01 1994  
MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done as the pit advances. Spoil will be place along the inner south wall as the mining advances northwestard. Final grading will be completed within one year of permit expiration.

**REPLACEMENT OF TOPSOIL**

Topsoil will be placed on slopes within one year of permit expiration. No topsoil will be hauled from site so we will place all soil available on site on spoil slopes.

**REVEGETATION**

All topsoil areas will be seeded during first planting period following topsoil replacement.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

*original*  
0-2" (soil depth verified by Inspector; probed 3/7/94 by Candy Hamill.)

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

0

Agricultural (pasture, cropland, and horticultural)

0

Development (residential, industrial, and recreational)

14 27

Water impoundments (for wildlife, agricultural, or development)

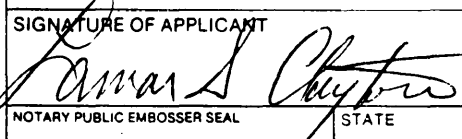
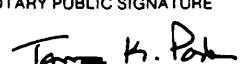
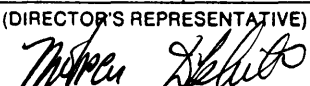
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By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED  
JAN 23 1998

MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT 		TITLE PRESIDENT		DATE JAN 23 1998	
NOTARY PUBLIC EMBOSSEER SEAL	STATE MISSOURI		COUNTY (OR CITY OF ST. LOUIS) Boone		
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23 <sup>rd</sup> DAY OF JANUARY 19 98			USE RUBBER STAMP IN CLEAR AREA BELOW  TAMARA K PARKS NOTARY PUBLIC STATE OF MISSOURI BOONE COUNTY MY COMMISSION EXP MAR. 9, 2001	
	NOTARY PUBLIC SIGNATURE 		MY COMMISSION EXPIRES March 9, 2001		
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Tamara K. Parks				
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 3/19/98		PERMIT NUMBER 688	



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

RECEIVED  
FEB 10 1999

To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER Lanagan		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY McDonald	1/4 SECTION	SECTION 36	
TOWNSHIP 22N	RANGE 33W	ACRES 21	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Ollie M. Hill		
ADDRESS HCR 60, Box 19		
CITY Lanagan	STATE MO	ZIP CODE 64847
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 10/23/95
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS 1591 A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

RECEIVED  
FEB 10 1999

MISSOURI LAND

P.O. BOX 176  
JEFFERSON CITY, MO 65102

RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 21 acres directly adjacent to the south of the previous submitted mine plan area (38 acres). Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little good quality topsoil. Approximately 15 acres of the total 21 acres has been previously disturbed by limestone mining operations. The previously mined acres are a mixture of pre- and post-law affected areas. The entire area is being permitted because overburden from the current operation to the will be placed across most of the 21 acres.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

3

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Whatever topsoil is present will be removed with dozers and scrapers on site for future commercial or industrial development. Enough topsoil will be stockpiled to accommodate vegetative growth on disturbed areas where needed.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil material will be placed in stockpiles located in stable locations with seed and mulch applied to stabilize the pile from erosion.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND

RECLAMATION COMMISSION

Spoil material will be removed, stored, and protected on permitted acres for site development or sold as fill material off-site. The majority of spoil material will be placed in the old pit areas located on the southern portion of the permit area.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

**YES      NO**

☐      ☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐      ☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐      ☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

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FEB 10 1999

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION (Attach additional sheets, if needed)**

MISSOURI LAND

REVEGETATION MIX #1

PURPOSE OR LAND USE

RECLAMATION COMMISSION

SEEDING OR PLANTING TIME

Fescue/Red Clover

Commercial Development

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit and spoil material will be graded, disced, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

**ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.**

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FEB 10 1999

**B. GRADING**

MISSOURI LAND

RECLAMATION COMMISSION  
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Spoil material from the current mining operation on the northern tract of the permit area will be placed in old pit areas and ravines on this portion of the mine plan area. The spoil material will be graded to slope traversable by farm machinery that blends in evenly to the surrounding landscape.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	21
Water impoundments (for wildlife, agricultural, or development)	

RECEIVED  
FEB 10 1999

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Bab</i>		TITLE Vice President	DATE 2/10/99
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) BOONE
	SUBSCRIBED AND SWORN BEFORE ME, THIS 10 <sup>th</sup> DAY OF FEB 19 99		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE <i>Warren L. Haems</i>	MY COMMISSION EXPIRES 3/25/2002	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HAEMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Doyle</i>		DATE APPROVED 03/29/99	PERMIT NUMBER 0663



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

**RECEIVED**  
JAN 23 1998

P.O. BOX 176  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER SOUTHWEST LIME QUARRY		PERMIT NUMBER 0439
SITE(S) LANAGAN		
ADDRESS HCR 60		
CITY LANAGAN	STATE MISSOURI	ZIP CODE 64847
CONTACT PERSON DAVID FOREMAN		PHONE NUMBER 417-865-1555

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
AMERICAN INSURANCE INSURANCE COMPANY	27307392	FEB. 23, 1996	57,000.00

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC MISSOURI, INC.		
ADDRESS 1591 A PRATHERSVILLE ROAD		
CITY COLUMBIA	STATE MISSOURI	ZIP CODE 65202
CONTACT PERSON JEFF ALEXANDER		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
LIMPUS QUARRIES, INC.	0570, 0040	LIMESTONE
GRAND RIVER QUARRY, INC.	0564	LIMESTONE
CITY WIDE ASPHALT, INC.	0279	LIMESTONE

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

5  
**RECEIVED**  
JAN 23 1998

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI  
**RECLAMATION COMMISSION**

SITE NAME OR NUMBER

PERMIT NUMBER

LANAGAN

0439

COMPANY NAME

APAC MISSOURI, INC.

COUNTY

1/4 SECTION

SECTION

MCDONALD

36

TOWNSHIP

RANGE

ACRES

22N

33W

38

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

MINERAL COMMODITY

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

LIMESTONE / DOLOMITE

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

APAC MISSOURI, INC.

ADDRESS

1591 A PRATHERSVILLE ROAD

CITY

STATE

ZIP CODE

COLUMBIA

MO

65202

SOURCE OF RIGHT TO MINE (CHECK ONE):

DATE OF AGREEMENT

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

APAC MISSOURI, INC.

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

DATE OF AGREEMENT

☐ MINERAL DEED

☐ LEASE

☐ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

MINE PLAN

RECEIVED  
APR 24 1998

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 12-31-10

Lanagan

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers approximately 38 acres,  
steeply rolling topography, wooded, cherty clay  
soil. Abutting existing land previously  
quarried.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6-12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFF-SITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Dozer and scraper push into piles

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Place in area away from channelized water,  
seed seasonally



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APR 24 1996

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND  
RECLAMATION COMMISSION

spoil to be stockpiled out of way  
of mining then used to reclaim highwalls Lanagan

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NA

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

see maps

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☒☐

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

Lanagan

## RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

## A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

Development <sup>DM</sup> ~~Agriculture~~

B. SEEDING OR PLANTING TIME

spring or fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Hand Broadcast Minimum

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	30		
Red clover	7		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

lanagan

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Mined out portion to be flat and level with an existing plain. High walls; ~~to be graded~~ DF ~~back~~ ~~fill~~ spoil placed up against and sloped 3:1.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Advance as pit does which will be dictated by sales. Final grading to be done one year after permit expiration or renewal permit expiration under which surface mining disturbance occurred

**REPLACEMENT OF TOPSOIL**

Replace topsoil as necessary on slopes within one year of permit expiration or renewal permit expiration under which surface mining disturbance occurred

**REVEGETATION**

within first planting season of replacement of topsoil above.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12"

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

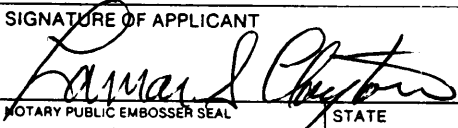
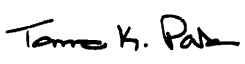

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28 38

RECEIVED  
JAN 23 1998

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT 		TITLE PRESIDENT		DATE JAN 23 1998	
NOTARY PUBLIC EMBOSSEY SEAL		STATE MISSOURI		COUNTY (OR CITY OF ST. LOUIS) Boone	
		SUBSCRIBED AND SWORN BEFORE ME, THIS 23rd DAY OF JANUARY 1998		USE RUBBER STAMP IN CLEAR AREA BELOW  TAMARA K PARKS NOTARY PUBLIC STATE OF MISSOURI BOONE COUNTY MY COMMISSION EXP MAR. 9, 2001	
		NOTARY PUBLIC SIGNATURE 			
		NOTARY PUBLIC NAME (TYPED OR PRINTED) Tamara K. Parks			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 3/19/98		PERMIT NUMBER 688	



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

RECEIVED  
JAN 11 1998

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Lake Ozark Construction Industries, Inc.	PERMIT NUMBER 0460
---	-----------------------

SITE(S) LOCI #14
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ADDRESS P.O. Box 888
-------------------------

CITY Osage Beach	STATE MO	ZIP CODE 65065
---------------------	-------------	-------------------

CONTACT PERSON Mike Atkisson	PHONE NUMBER 573-348-1515
---------------------------------	------------------------------

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$57,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.
---

ADDRESS 1591 A Prathersville Road
--------------------------------------

CITY Columbia	STATE MO	ZIP CODE 65202
------------------	-------------	-------------------

CONTACT PERSON Christopher Schwedtmann	TELEPHONE NUMBER 573-449-0886
---	----------------------------------

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
DYL Quarries, Inc.	0260	Limestone
Prestage Quarry and Materials, Inc.	0393	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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TRANSFER OF RECLAMATION RESPONSIBILITY

MISSOURI LAND  
RECLAMATION COMMISSION


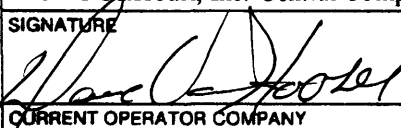
In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 460, which consists of 35 acres located in Section 20 & 29, Township 40N, Range 15W, Miller County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Lake Ozark Construction Industries, Inc. (FORMER OPERATOR)


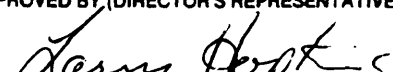
All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME John A. Pasley	TITLE Division President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE 1-6-99
SIGNATURE 	NAME Dave VanHooser	TITLE General Manager
CURRENT OPERATOR COMPANY Lake Ozark Construction Industries, Inc.		DATE 1-6-99

Appeared before me this 6 day of JAN., 19 99, JOHN PASLEY & DAVE VANHOOSER to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>MISSOURI</u>	COUNTY (OR CITY OF ST. LOUIS) <u>BOONE</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>6</u> DAY OF <u>JAN</u> , 19 <u>99</u>	
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES <u>3/25/02</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>	
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		TITLE <u>LRS III</u>
		DATE APPROVED <u>02/26/99</u>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER Quarry #14		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Miller	1/4 SECTION	SECTION 29	
TOWNSHIP 40N	RANGE 15W	ACRES 12	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS 1591A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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To be completed for each separate area of disturbance associated with mining operations.		
SITE NAME OR NUMBER Quarry #14		PERMIT NUMBER 688
COMPANY NAME APAC-Missouri, Inc.		
COUNTY Miller	1/4 SECTION	SECTION 20,29
TOWNSHIP 40N	RANGE 15W	ACRES 15
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Osage National Golf Course		
ADDRESS Osage Hills Road, P.O. Box 1210		
CITY Lake Ozark	STATE MO	ZIP CODE 65049
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.</b>		





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Quarry #14		PERMIT NUMBER 688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Miller	1/4 SECTION		SECTION 20,29
TOWNSHIP 40N	RANGE 15W		ACRES 8
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Missouri Department of Transportation		
ADDRESS 1511 Missouri Boulevard Box 718		
CITY Jefferson City	STATE MO	ZIP CODE 65102
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): Permit #5-96-01289		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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JAN 11 1999

MISSOURI LAND

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 35 acres. Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of rocky clay hardpan.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and placed in fill areas as needed for site development. Excess overburden will be sold for fill off site.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

NA

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI  
RECLAMATION COMMISSION

Spoil material will be placed in fill areas as needed to accommodate future site development. Most fill will be placed in the corridor along Hwy 54 west of the active pit for future highway widening.

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? See MODOT permit.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation start at or within fifty feet (50') of any property line? A fence has been installed. (NOTE: If the answer is "yes", a safety barrier may be needed.)   |

MISSOURI LAND

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

RECLAMATION COMMISSION

**A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1 Fescue/Red Clover	PURPOSE OR LAND USE Commercial Development	B. SEEDING OR PLANTING TIME First optimal period following grading.
--	---	--

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

This site is being developed for commercial or industrial purposes on the Osage National Golf Course. The property belonging to the Missouri Department of Transportation will be reclaimed according to their plans for future widening of Hwy 54. On the golf course property, the fringes and backslope areas will be prepared and seeded according to standard practices of the LRP.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
---------------------	---------------------	-----------------------------

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

MISSOURI LAND

RECLAMATION COMMISSION

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The floor of the quarry will be left open so it is suitable for development with a durable surface. There will be a highwall left next to the golf course property with a well-vegetated earthen berm and chain-link fence placed on the border for safety and security. Any areas disturbed to accommodate shaping of grades and slopes to accommodate the finished site plan will be graded to a slope traversable by farm machinery unless the original slope was steeper. Most fill material will be placed in the corridor along Hwy 54 to accommodate future widening of Hwy 54. This area will meet all specifications for highway construction as outlined by the MODOT.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

35

Water impoundments (for wildlife, agricultural, or development)

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MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Bal</i>		TITLE Vice President	DATE 1/11/99
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) Boone	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 11 DAY OF JAN 19 99		USE RUBBER STAMP IN CLEAR AREA BELOW  RMS Notary Public Missouri Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harris</i>	MY COMMISSION EXPIRES 3/25/02	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. Harris		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Jerry Hept's</i>		DATE APPROVED 02/26/99	PERMIT NUMBER 0668



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

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JAN 11 1999

P.O. BOX 176  
JEFFERSON CITY, MO 65102

MISSOURI LAND

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Lake Ozark Construction Industries, Inc.		PERMIT NUMBER 0460
SITE(S) LOCI #12		
ADDRESS P.O. Box 888		
CITY Osage Beach	STATE MO	ZIP CODE 65065
CONTACT PERSON Mike Atkisson		PHONE NUMBER 573-348-1515

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$57,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.		
ADDRESS 1591 A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
CONTACT PERSON Christopher Schwedtmann		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
DYL Quarries, Inc.	0260	Limestone
Prestage Quarry and Materials, Inc.	0393	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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JAN 11 1999

MISSOURI LAND  
RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY



In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 460, which consists of 20 acres located in Section 25 & 26, Township 42N, Range 15W, Miller County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Lake Ozark Construction Industries, Inc. (FORMER OPERATOR)

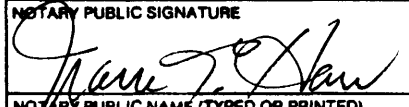
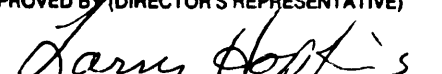
All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME John A. Pasley	TITLE Division Pres.
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE 1-6-99
SIGNATURE 	NAME Dave VanHooser	TITLE General Manager
CURRENT OPERATOR COMPANY Lake Ozark Construction Industries, Inc.		DATE 1-6-99

Appeared before me this 6 day of JAN., 19 99, JOHN PASLEY & DAVE VANHOOSER to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>MISSOURI</u>	COUNTY (OR CITY OF ST. LOUIS) <u>BOONE</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>6</u> DAY OF <u>JAN.</u> , 19 <u>99</u>	
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES <u>3/25/02</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>	
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		TITLE <u>LRST III</u>
		DATE APPROVED <u>02/26/99</u>





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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JAN 11 1999  
MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Quarry #12		PERMIT NUMBER 0688
COMPANY NAME APAC-Missouri, Inc.		
COUNTY Miller	1/4 SECTION	SECTION 25,26
TOWNSHIP 42N	RANGE 15W	ACRES 95
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS 1591A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

RECEIVED  
JAN 11 1999

MISSOURI LAND

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Approximately 43 acres located in section 26 has been stripped of overburden for the construction of overpasses for Hwy 54. Approximately 52 acres located in section 25 is in permanent pasture. Fescue and native grasses are predominant.

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil on the 43 acres in section 26 has already been removed. The topsoil on the 52 acres in section 25 will be removed with dozers and scrapers and stockpiled until removed from the site. Enough topsoil material will be salvaged and stockpiled to complete any necessary reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil to be sold will be stored in stockpiles and if necessary graded and properly seeded to reduce sedimentation until removal. Topsoil material that is to remain on site for reclamation will be seeded with vegetation as soon as the stockpile is completed during the next available seeding period. Temporary cover and mulch will be used if the next optimum seeding period is not within 60 days following completion of the stockpile.

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**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

WILLIAM C. CURLIAND  
RECLAMATION COMMISSION

Spoil material will be removed, stored, and protected on permitted acres for site development or sold as fill material off-site. Spoil material will be placed along the southern permit boundary.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line?<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)  |

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

MISSOURI LAND

**A. REVEGETATION (Attach additional sheets, if needed)**
**RECLAMATION COMMISSION**

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Fescue/Red Clover

Commercial Development

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

MISSOURI LAND

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

RECLAMATION COMMISSION

When quarrying is completed the pit area will be relatively flat with a durable surface suitable for development. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of topsoil material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

95

Water impoundments (for wildlife, agricultural, or development)

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MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Baker</i>		TITLE Vice President	DATE
NOTARY PUBLIC EMBOSSEY SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) <i>BOONE</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>11</i> DAY OF <i>JAN</i> 19 <i>99</i>		USE RUBBER STAMP IN CLEAR AREA BELOW  WARREN L. HARMS Notary Public - State of Missouri City of Boone, Missouri My Comm. Expires 3/25/02
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES <i>3/25/02</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Harry Heptis</i>		DATE APPROVED <i>02/26/99</i>	PERMIT NUMBER <i>0668</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

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P.O. BOX 176  
JEFFERSON CITY, MO 65102

MISSOURI LAND

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER DYL Quarries, Inc.		PERMIT NUMBER 0260
SITE(S) DYL Quarry		
ADDRESS P.O. Box 152, Route 1		
CITY Barnett	STATE MO	ZIP CODE 65011
CONTACT PERSON Mike Atkisson		PHONE NUMBER 573-348-1515

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co	11118414131	12/26/97	\$29,000

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.		
ADDRESS 1591 A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
CONTACT PERSON Christopher Schwedtmann		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
Lake Ozark Construction Industries, Inc.	0460	Limestone
Prestage Quarry and Materials	0393	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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MISSOURI LAND  
RECLAMATION COMMISSION  
TRANSFER OF RECLAMATION RESPONSIBILITY


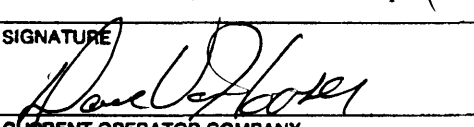
In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 0260, which consists of 50 acres located in Section 20, Township 42N, Range 16W, Morgan County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Lake Ozark Construction Industries, Inc. (FORMER OPERATOR)

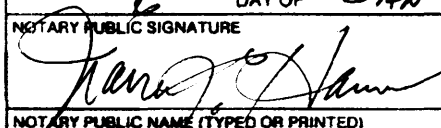
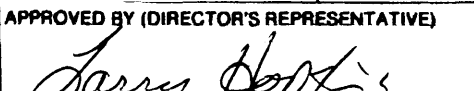
All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME John A. Pasley	TITLE Division President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE 1-6-99
SIGNATURE 	NAME Dave VanHooser	TITLE General Manager
CURRENT OPERATOR COMPANY Lake Ozark Construction Industries, Inc.		DATE 1-6-99

Appeared before me this 6 day of JAN., 19 99, John Pasley & Dave VanHooser to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>Missouri</u>	COUNTY (OR CITY OF ST. LOUIS) <u>Boone</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>6</u> DAY OF <u>JAN</u> , 19 <u>99</u>	
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES <u>3/25/02</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>	
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED <u>02/26/99</u>
TITLE <u>L.R. ST III</u>		





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MISSOURI LAND  
RECLAMATION COMMISSION

**To be completed for each separate area of disturbance associated with mining operations.**

SITE NAME OR NUMBER DYL Quarry		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Morgan	1/4 SECTION		SECTION 20
TOWNSHIP 42N	RANGE 16W		ACRES 113
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)		
APAC-Missouri, Inc.		
ADDRESS		
1591A Prathersville Road		
CITY	STATE	ZIP CODE
Columbia	MO	65202
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED		
<input checked="" type="checkbox"/> WARRANTY DEED		
<input type="checkbox"/> OTHER (DESCRIBE):		
<input type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		

<b>MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)</b> Same as Landowner		
<b>ADDRESS</b>  		
<b>CITY</b>  	<b>STATE</b>  	<b>ZIP CODE</b>  
<b>SOURCE OF RIGHT TO MINE (CHECK ONE):</b> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> MINERAL DEED  <input type="checkbox"/> WARRANTY DEED  <input type="checkbox"/> OTHER (DESCRIBE): _____         </div> <div> <input type="checkbox"/> LEASE  <input type="checkbox"/> VERBAL AGREEMENT         </div> </div>		<b>DATE OF AGREEMENT</b>  

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Site was side of hills extending up to ridge tops. Vegetative cover was mainly oak timber and scrub brush. There is very little if any soil good enough to be considered topsoil. Overburden consists mainly of clay and rocks in varying depths.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and stored out of the way to be sold or used on site as needed for future commercial or industrial development. Enough growth medium will be retained to accommodate vegetative growth on disturbed areas if needed. Stockpiles will be protected by seeding with fast growing vegetative cover during the next available growing season.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Overburden will be stored and seeded until sold or used for site development.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil material will be removed, stored, and protected on permitted acres for site development or sold as fill material off-site.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

☐ ☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☒ ☐

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

A 3 ft. high safety barrier will  
installed where necessary.

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

MISSOURI LAND

**A. REVEGETATION (Attach additional sheets, if needed)**

RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Fescue/Red Clover

Commercial Development

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Pit will be left open for commercial or industrial development with a flat durable surface. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)****D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

113

Water impoundments (for wildlife, agricultural, or development)

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MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President	DATE 1/11/99
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) <i>Boone</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 11 DAY OF JAN 19 99		
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES 3/25/02	USE RUBBER STAMP IN CLEAR AREA BELOW  Notary Public, State of Missouri
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Larry Hopkins</i>		DATE APPROVED 02/26/99	PERMIT NUMBER 0668



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

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MISSOURI LAND

P.O. BOX 176  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Prestage Quarry and Materials, Inc.		PERMIT NUMBER 0393
SITE(S) Prestage Quarry		
ADDRESS P.O. Box 1214		
CITY Laurie	STATE MO	ZIP CODE 65038
CONTACT PERSON Mike Atkisson		PHONE NUMBER 573-348-1515

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co	11119272943	5/6/94	\$11,500

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.		
ADDRESS 1591 A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
CONTACT PERSON Christopher Schwedtmann		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
Lake Ozark Construction Industries, Inc.	0460	Limestone
DYL Quarries	0260	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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MISSOURI LAND  
RECLAMATION COMMISSION



TRANSFER OF RECLAMATION RESPONSIBILITY

In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 393, which consists of 20 15 acres located in Section 21, Township 40N, Range 17W, Morgan County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR) a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Lake Ozark Construction Industries, Inc. (FORMER OPERATOR)


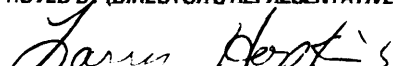
All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME John A. Pasley	TITLE Division President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE 1-6-99
SIGNATURE 	NAME Dave VanHooser	TITLE General Manager
CURRENT OPERATOR COMPANY Lake Ozark Construction Industries, Inc.		DATE 1-6-99

Appeared before me this 6 day of JAN., 19 99, JOHN PASLEY & DAVE VANHOOSER personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>MISSOURI</u>	COUNTY (OR CITY OF ST. LOUIS) <u>BOONE</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>6</u> DAY OF <u>JAN</u> , 19 <u>99</u>	
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES <u>3/25/02</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>WARREN L. HARMS</u>	
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED <u>02/26/99</u>
TITLE <u>LRS III</u>		

USE RUBBER STAMP IN CLEAR AREA BELOW  
L. HARMS  
Notary Public - State of Missouri  
Boone County





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Prestage Quarry		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Morgan	1/4 SECTION	SECTION 21	
TOWNSHIP 40N	RANGE 17W	ACRES 60	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc.		
ADDRESS 1591A Prathersville Road		
CITY Columbia	STATE MO	ZIP CODE 65202
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

RECEIVED  
JAN 11 1999

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 60 acres. Most of the mine site lies in an area which is steeply sloped and heavily wooded. Topsoil is very thin and rocky. Overburden consists mainly of clay and rocks in varying depths.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Negligible INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Overburden is removed with dozers and scrapers and stored out of the way to be sold or used on site as needed for future commercial or industrial development. Enough growth medium will be retained to accommodate vegetative growth on disturbed areas. Stockpiles will be protected by seeding with fast growing vegetative cover during the next available growing season.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Overburden will be stored and seeded until sold or used for site development.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND  
RECLAMATION COMMISSION

Spoil material will be removed, stored, and protected on permitted acres for site development or sold as fill material off-site. Spoil material will be placed between the pit area and the permit boundaries mainly on the east and west sides.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                                     |                                     |   |                             |
|-------------------------------------|-------------------------------------|---|-----------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |                             |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Will any excavation start at or within fifty feet (50') of any property line?<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)  | A fence has been installed. |

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

MISSOURI LAND  
RECLAMATION COMMISSION

**A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1

Fescue/Red Clover

PURPOSE OR LAND USE

Commercial Development

B. SEEDING OR PLANTING TIME

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

**DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Pit will be left open for commercial or industrial development with a flat durable surface. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

60

Water impoundments (for wildlife, agricultural, or development)

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RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President	DATE 1/11/99
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) <i>BOONE</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 11 DAY OF JAN 19 99		USE RUBBER STAMP IN CLEAR AREA BELOW  WARREN L. HARMS Notary Public - State of Missouri Commission Expires 3/25/02 My Commission No. 100-20, 2002
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>	MY COMMISSION EXPIRES 3/25/02	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Harry Hoptis</i>		DATE APPROVED 02/26/99	PERMIT NUMBER 0668

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795



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT TRANSFER**

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 178  
JEFFERSON CITY, MO 65102

**PERMIT TRANSFER** (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER Roark Creek Quarry Company		PERMIT NUMBER 0641
SITE(S) Site #1		
ADDRESS 14204 Hwy 39		
CITY Mount Vernon	STATE MO	ZIP CODE 65712
CONTACT PERSON Terry Wilson		PHONE NUMBER 417-466-4664

**TO BE COMPLETED BY THE CURRENT PERMIT HOLDER**

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Amwest Surety Insurance Co.	016002415	9/16/97	\$8,000

**TO BE COMPLETED BY PROPOSED SUCCESSOR**

NAME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.		
ADDRESS P.O. Box 1117		
CITY Columbia	STATE MO	ZIP CODE 65205
CONTACT PERSON Christopher Schwedtmann		TELEPHONE NUMBER 573-449-0886

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.	0570, 0040	Limestone
Grand River Quarry, Inc.	0564	Limestone
City Wide Ashphalt, Inc.	0279	Limestone
DYL Quarries, Inc.	0260	Limestone
Prestage Quarry and Materials, Inc.	0393	Limestone
Lake Ozark Construction Industries	0460	Limestone

**NOTE:** The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

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MISSOURI LAND  
RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY

In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 641, which consists of 8 acres located in Section 24 & 25, Township 23N, Range 22W, Taney County, Missouri, APAC-Missouri, Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Roark Creek Quarry Company FORMER OPERATOR

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE <i>Richard L. Baker</i>	NAME Richard L. Baker	TITLE Vice-President
PROPOSED SUCCESSOR COMPANY APAC-Missouri, Inc.-Central Companies Division		DATE 5/20/99
SIGNATURE <i>Terry Wilson</i>	NAME Terry Wilson	TITLE President
CURRENT OPERATOR COMPANY Roark Creek Quarry Company		DATE
<p>Appeared before me this <u>20<sup>th</sup></u> day of <u>May</u>, 19 <u>99</u>. <u>RICHARD L. BAKER</u> to me personally known, who executed the above as their free acts and deeds.</p>		
NOTARY PUBLIC EMBOSSEMENT SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS)
SUBSCRIBED AND SWORN BEFORE ME, THIS 20 <sup>th</sup> DAY OF May 19 99		Boone
NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		USE RUBBER STAMP IN CLEAR AREA BELOW
NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		WARREN L. HARMS Notary Public-State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Terry Hopkins</i>	TITLE LRS III	DATE APPROVED 06/22/99





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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To be completed for each separate area of disturbance associated with mining operations. RECLAMATION COMMISSION

SITE NAME OR NUMBER Roark Creek		PERMIT NUMBER 0688	
COMPANY NAME APAC-Missouri, Inc.			
COUNTY Taney	1/4 SECTION		SECTION 24 and 25
TOWNSHIP 23N	RANGE 22W		ACRES 250
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Roark Properties, Inc.		
ADDRESS 1101 Walnut, Suite 1008		
CITY Kansas City	STATE MO	ZIP CODE 64106
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same as above.		
ADDRESS		
CITY		ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT DATE OF AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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MISSOURI LAND RECLAMATION COMMISSION  
P.O. BOX 178  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 250 acres. Most of the mine site lies in an area which is steeply sloped and wooded with mainly oak and scrub brush. There is very little if any topsoil. Overburden consists mainly of rocky clay hardpan.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

1.5

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the mining areas are cleared of trees the topsoil will be removed and sufficient topsoil will be retained to cover the required areas with 1.5 inches of topsoil combined with any available B Horizon up to 10.5 inches on reclaimed land. Topsoil removal will be kept at least 20 feet ahead of the excavation. Topsoil will be removed with dozers and/or track loaders.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil material will be stockpiled in a stable location using dozers, track loaders, and trucks. The stockpile will be shaped and seeded and mulched to protect against erosion.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND  
RECLAMATION COMMISSION

All overburden removed will be removed and sold for fill material. There will be no new slopes as the hillside is being leveled for development.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None.

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached detail map.

YES NO

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)   |

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION** (Attach additional sheets, if needed)

RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Fescue/Red Clover

Commercial Development

First optimal period following grading.

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

This site is being developed for commercial and/or industrial purposes. Seeding will be completed on all fringe areas as required by the Land Reclamation Act.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	10		
Korean Lespedeza	10		
Orchard Grass	10		
Crown Vetch	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

MISSOURI LAND

RECLAMATION COMMISSION

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The floor of the quarry will be left flat and open so it is suitable for development with a durable surface. Little to no overburden should remain so grading is expected to be minimal, however all unconsolidated material located around the fringes of the remaining pit will be graded to a slope traversable by farm machinery (3:1).

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING**

Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).

**REPLACEMENT OF TOPSOIL**

Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).

**REVEGETATION**

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

See Section A. page 1.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

250

Water impoundments (for wildlife, agricultural, or development)

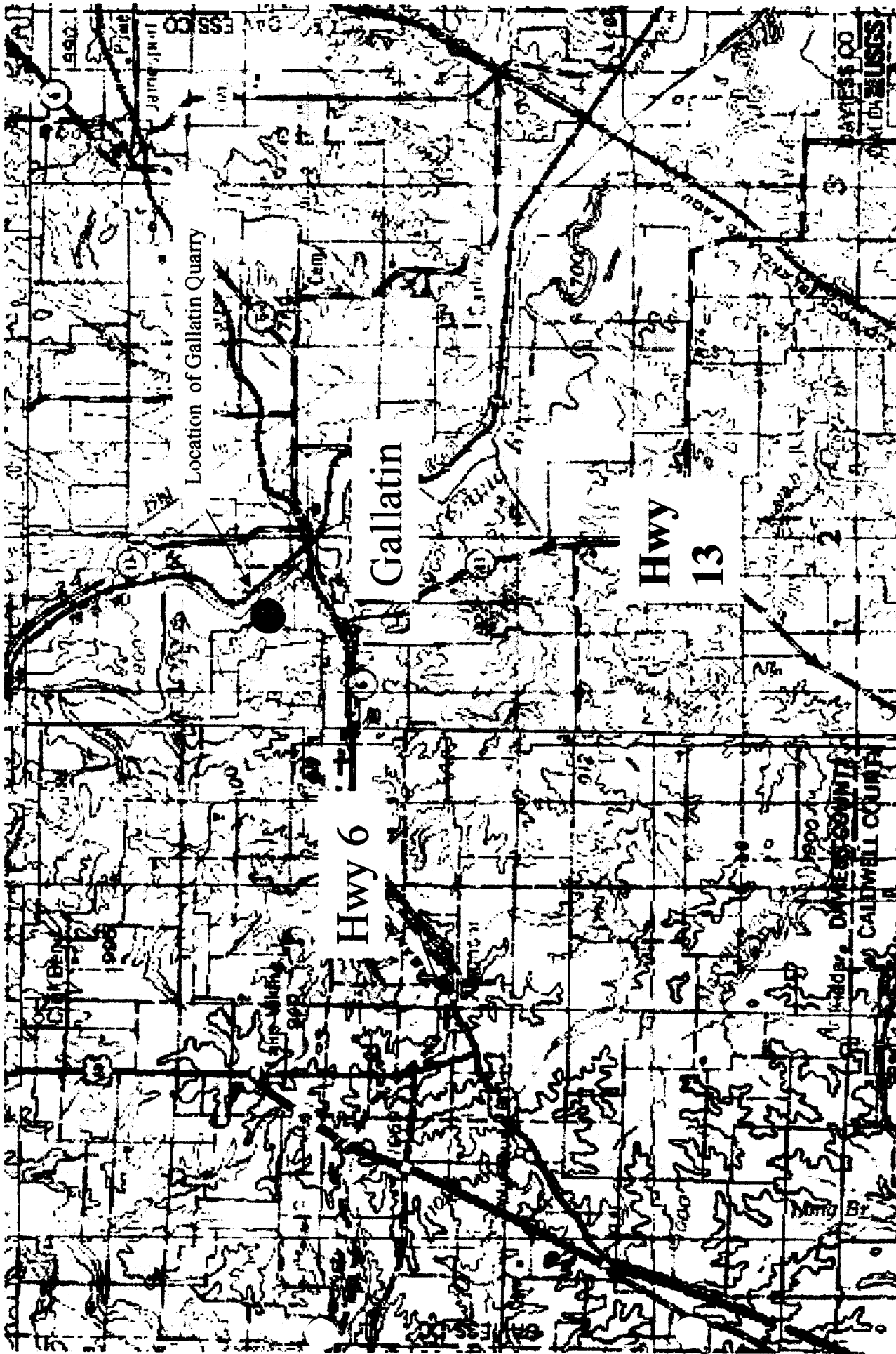
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MAY 27 1999

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Richard L. Boh</i>		TITLE Vice President		DATE 5/20/99	
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUIS) Boone		
	SUBSCRIBED AND SWORN BEFORE ME, THIS 20 DAY OF May 1999			USE RUBBER STAMP IN CLEAR AREA BELOW	
	NOTARY PUBLIC SIGNATURE <i>Warren L. Harms</i>		MY COMMISSION EXPIRES 3/25/2002		WARREN L. HARMS Notary Public - State of Missouri Commissioned in Boone County My Commission Expires March 25, 2002
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS				
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Harry Hopkins</i>		DATE APPROVED 06/22/99		PERMIT NUMBER 0688	



APAC Missouri Inc. Permit 0688 Locator Map for Gallatin Quarry in Daviess County.

Section 3, T59N, R27W

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Map Prepared by Brett Geger: January 27, 2004

FEB 4 2004

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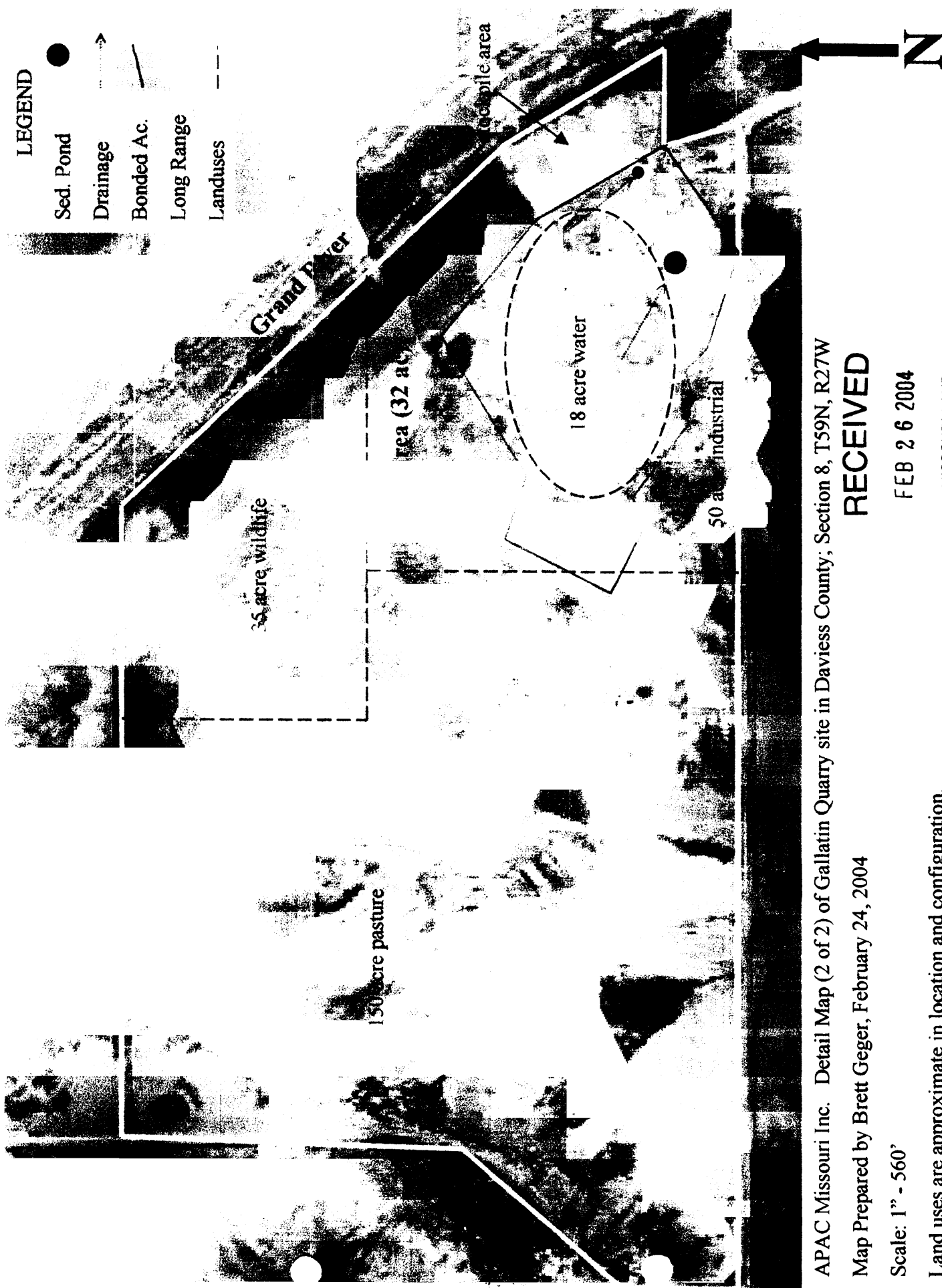


APAC Missouri Inc. Detail Map (1 of 2) of Gallatin Quarry site in Daviess County; Section 8, T59N, R27W

Map Prepared by Brett Geger, January 27, 2004

Scale: 1" = 1,508'





APAC Missouri Inc. Detail Map (2 of 2) of Gallatin Quarry site in Daviess County; Section 8, T59N, R27W

Map Prepared by Brett Geger, February 24, 2004

Scale: 1" = 560'

Land uses are approximate in location and configuration.

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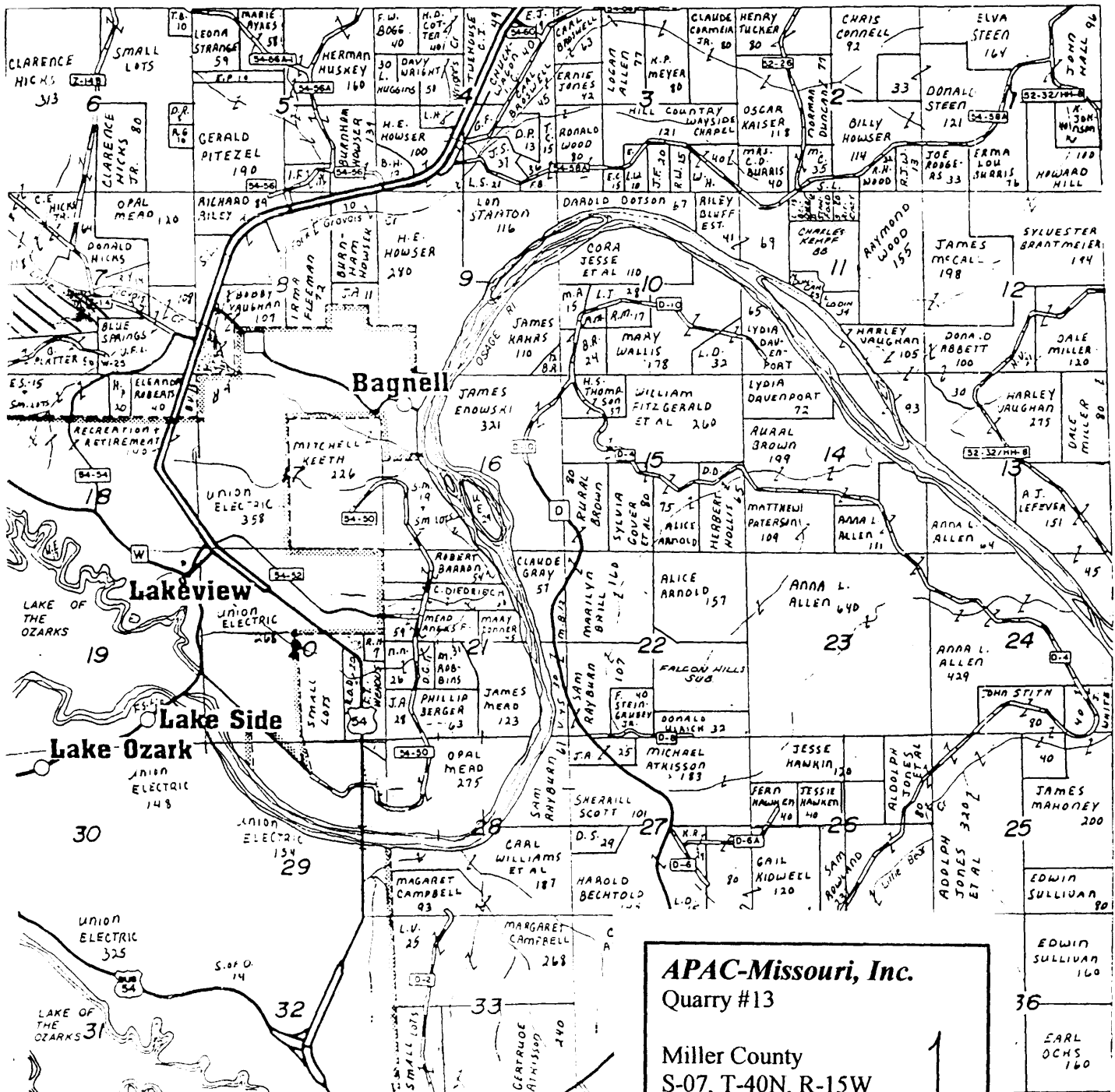
FEB 26 2004

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MISSOURI LAND  
DECLAMATION COMMISSION



APAC-Missouri, Inc.

Quarry #13

Miller County  
S-07, T-40N, R-15W

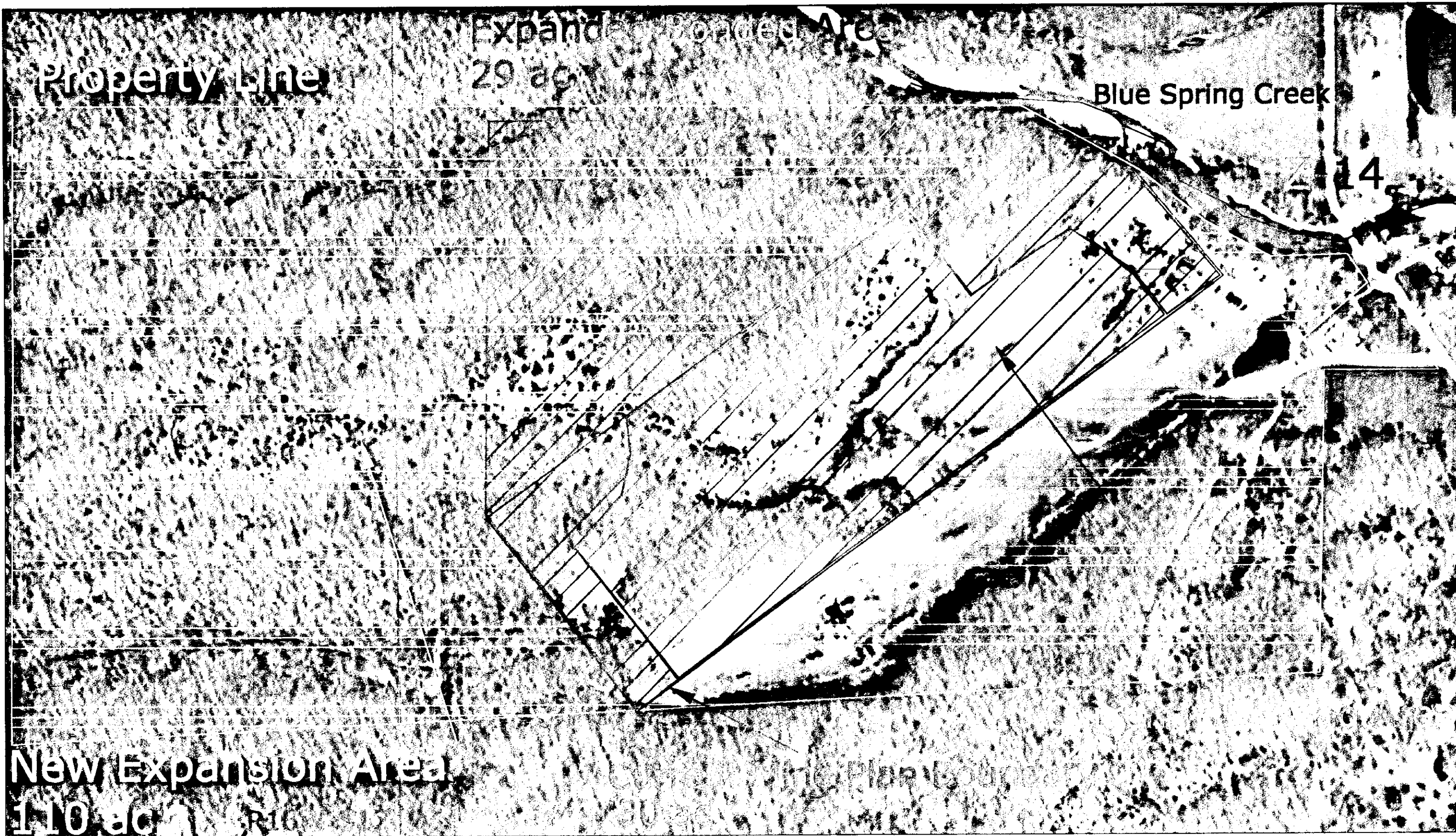
Locator Map


Scale 1"=4450'

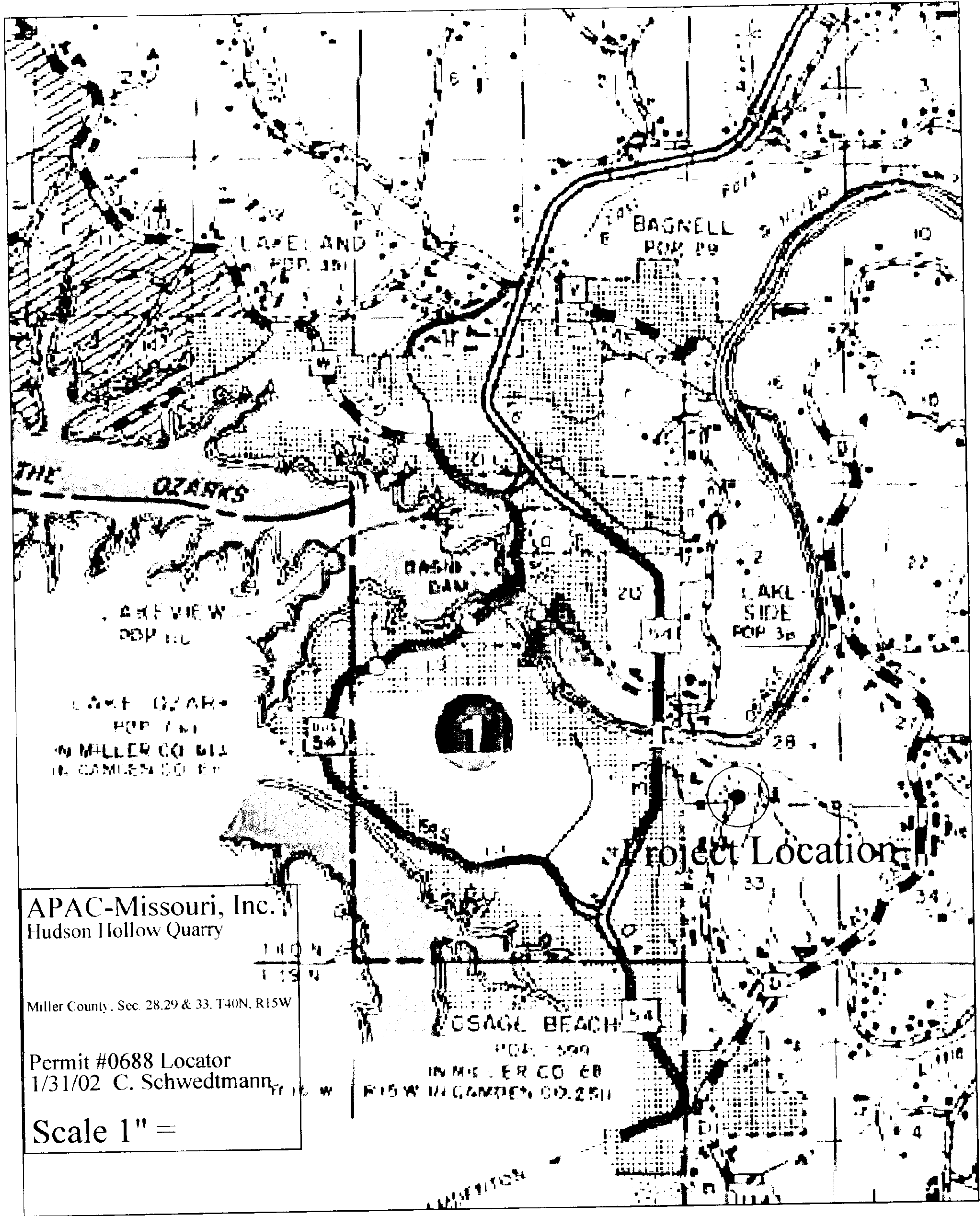
LAST MAP EDET - 01/09/99

FEB - 6 2002

MISSOURI RECLAMATION COMMISSION



APAC-Missouri, Inc. Central Missouri Division Detail Map Permit #0608 Miller County, Sec 7, T40N, R15W & Sec 12, T40N, R16W Scale: 1" = 2 1/2'	TITLE  Quarry #13	DATE  12/19/01		DRAWN BY Christopher R. Schwedtmann	DRAWN 11/7/01



APAC-Missouri, Inc.  
Hudson Hollow Quarry

Miller County, Sec. 28, 29 & 33, T40N, R15W

Permit #0688 Locator  
1/31/02 C. Schwedtmann

Scale 1" =



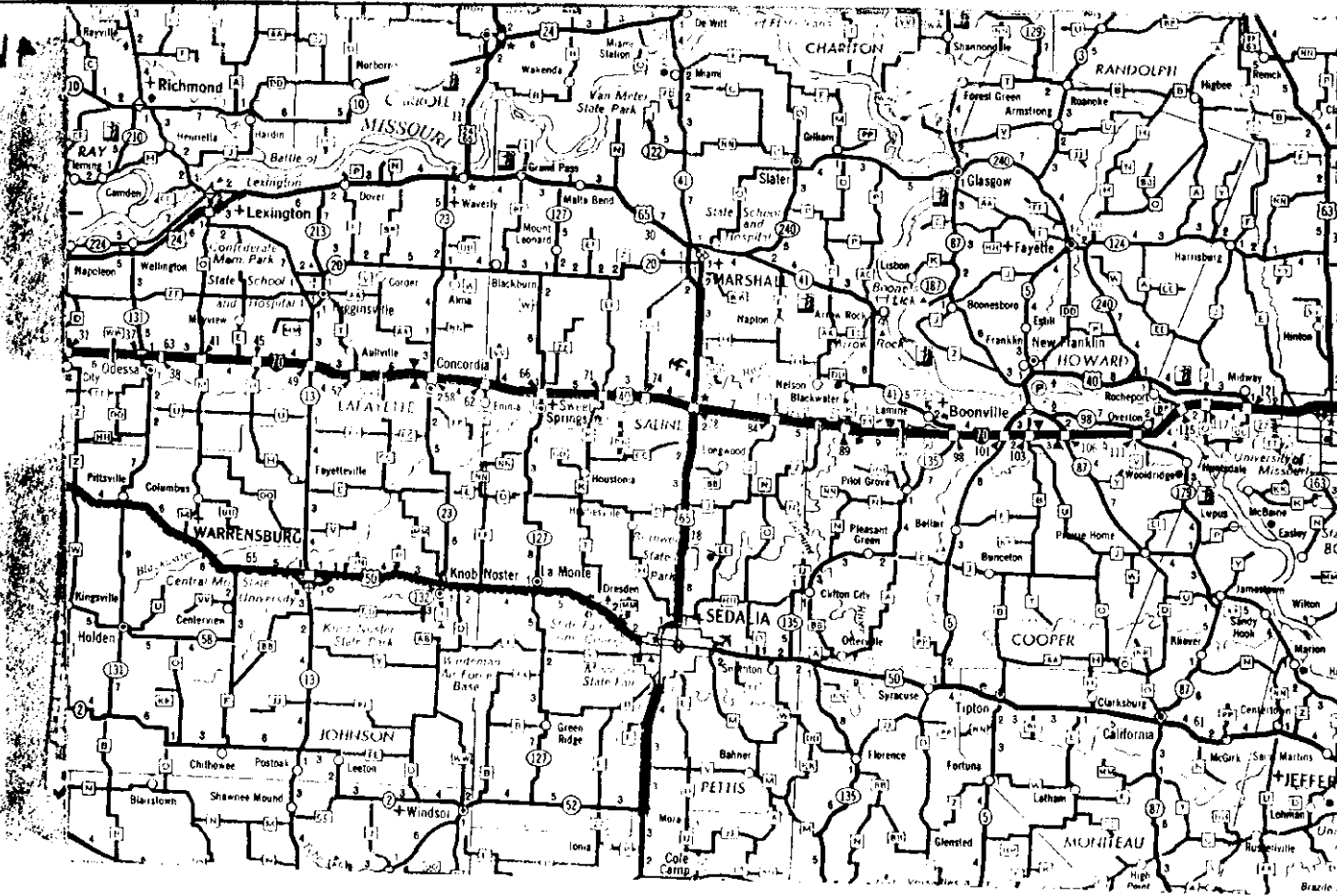
APAC-Missouri, Inc.  
Central Missouri Division  
Detail Map Permit #0688  
Miller County, Sec 28, 29 & 33, T40N, R15W  
Scale 1" = 470'

Hudson Hollow Quarry

Drawn by:  
Christopher R. Schwedtmann  
Drawn: 1/31/02



REVISIONS



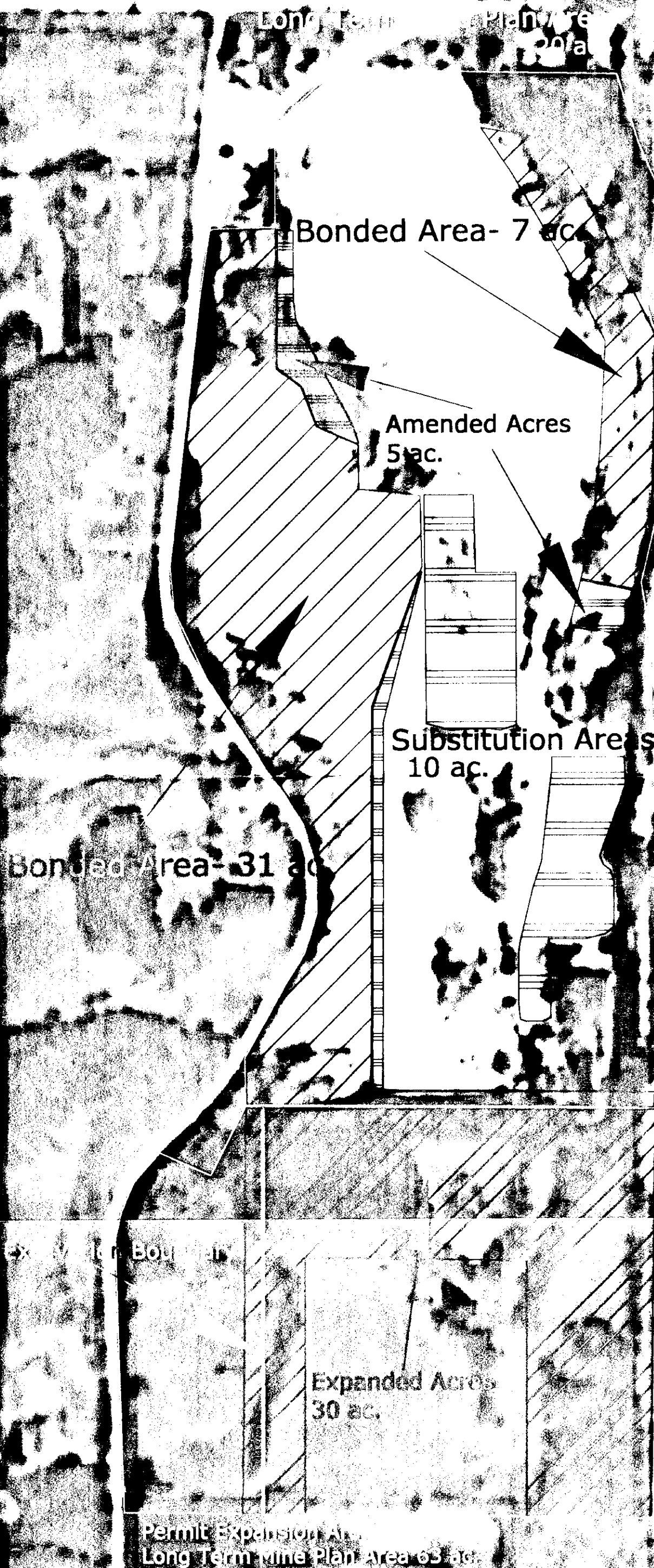
Marshall Quarry Location Map  
S23 T59N R21W  
Prepared by Jerry Hall  
S22, 827, T49N, R21W

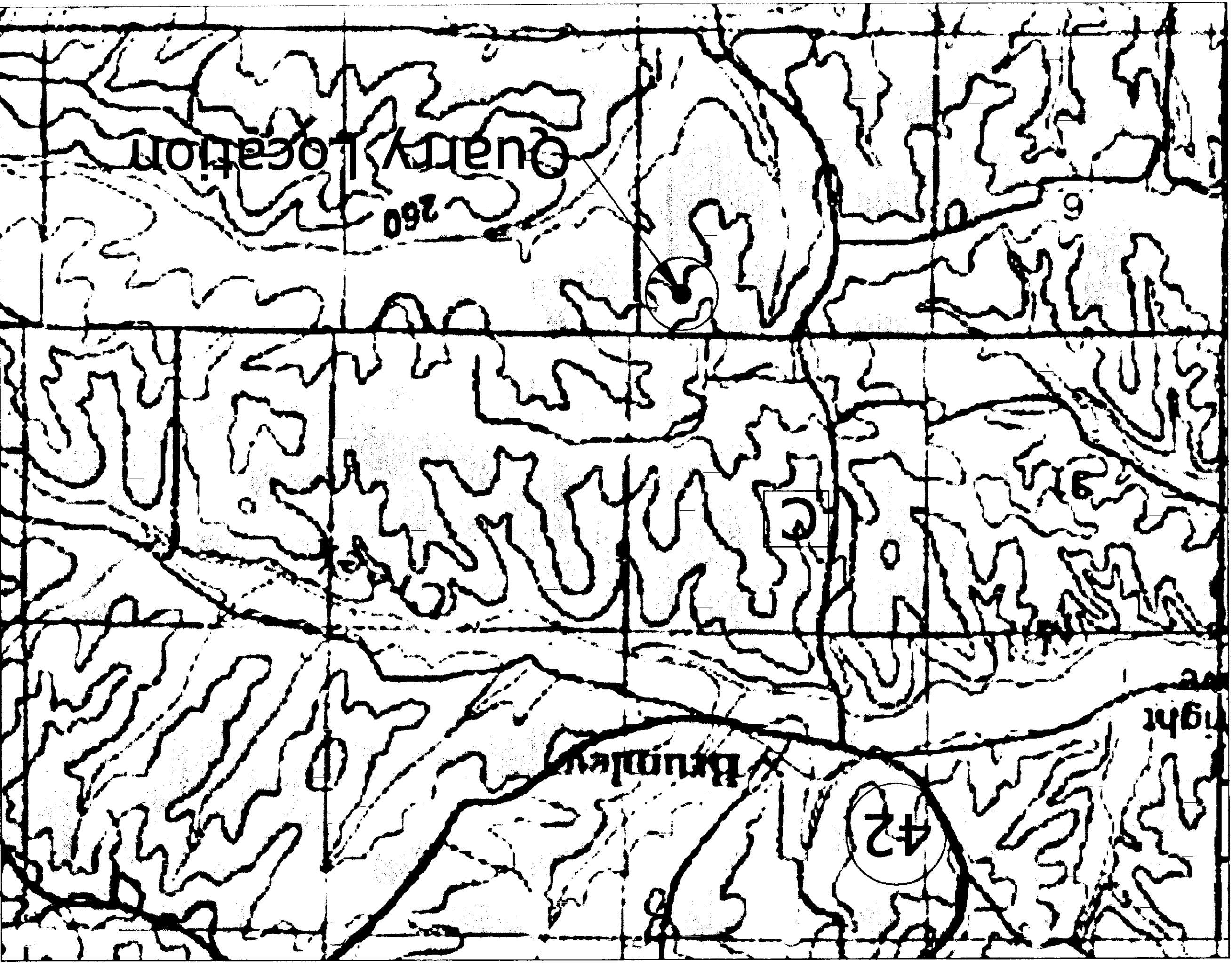
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NOV 15 2001

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DECLARATION COMMISSION

APAC-Missouri, Inc. Central Missouri Division Detail Map Saline County, Sec. 22 & 27, T49N, R21W Scale 1" = 365'	TITLE: <b>Marshall Quarry</b>	DRAWN BY: Christopher R. Schwedtmann	8/22/01	REVISIONS: 11/9/01	





APAC-Missouri, Inc.  
Central Missouri Division  
Locator Map Permit 0688  
Miller County, Sec. 5, T38N, R14W

**Graham Quarry**

CHARTER BY  
Christopher R. Schwedtmann 8/17/01

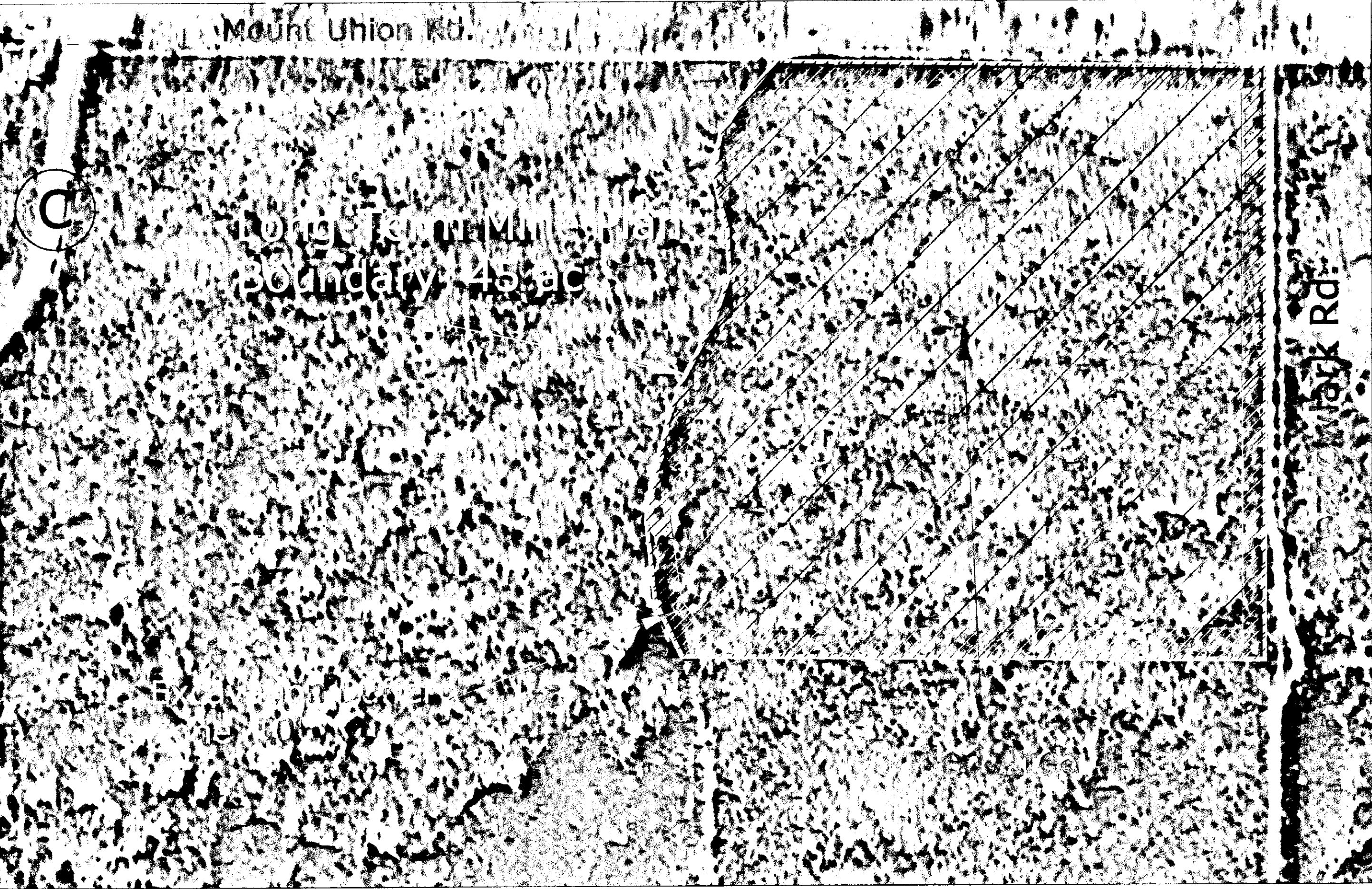


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AUG 23 2001

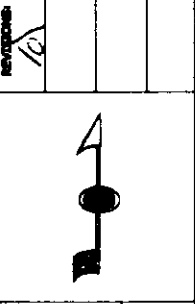
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APAC-Missouri, Inc.  
Central Missouri Division  
Detail Map Permit #0688  
Miller County, Sec. 5, T38N, R14W  
Scale 1" = 220'

**Graham Quarry**  
DRAWN BY: Christopher R. Schwedtmann 8/16/01

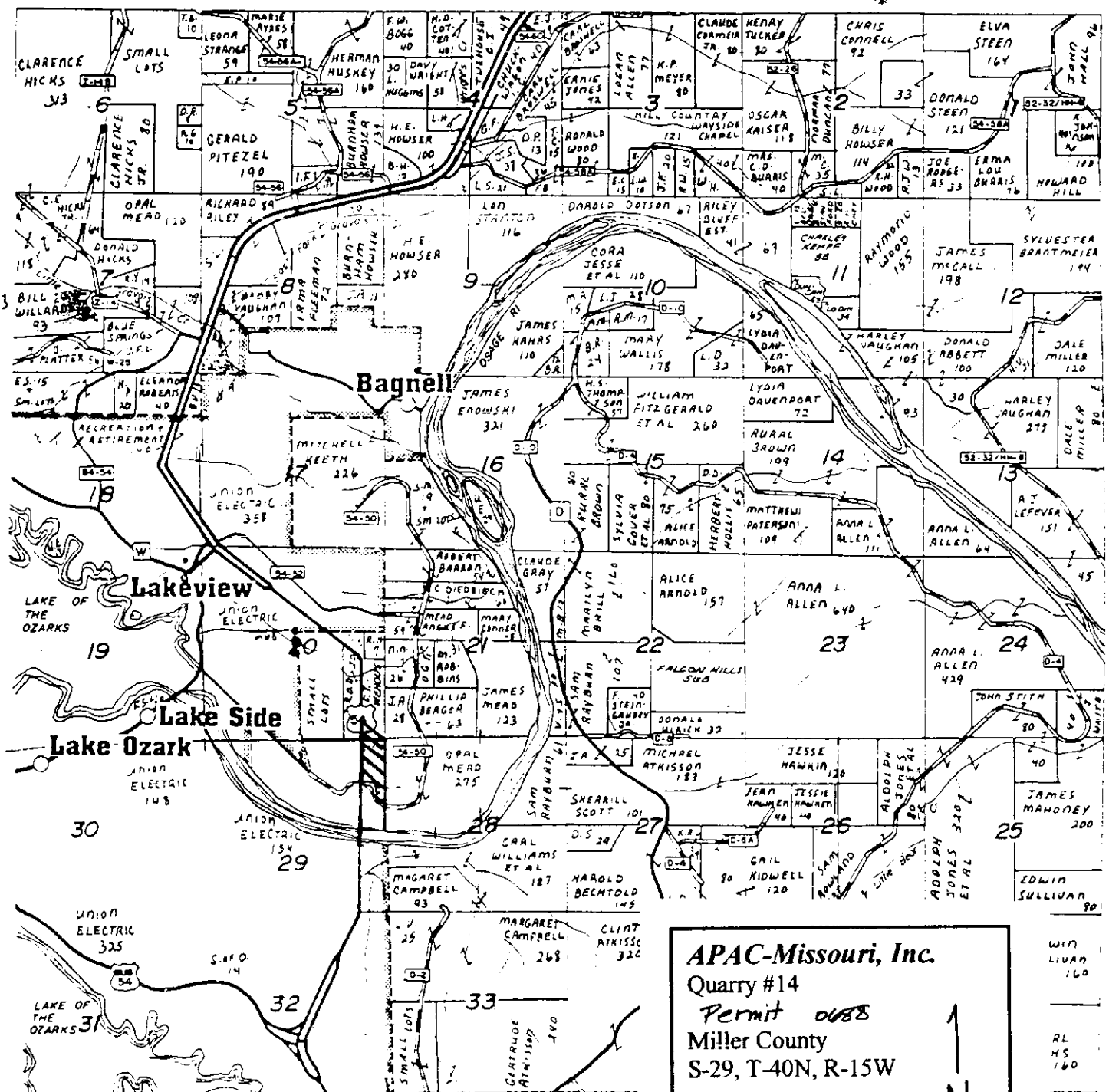


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JAN 11 1999

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APAC-Missouri, Inc.

Quarry #14

Permit 0688

Miller County

S-29, T-40N, R-15W

Locator Map

Scale 1"=4450'

WIN  
LIVAN  
160

RL  
MS  
160

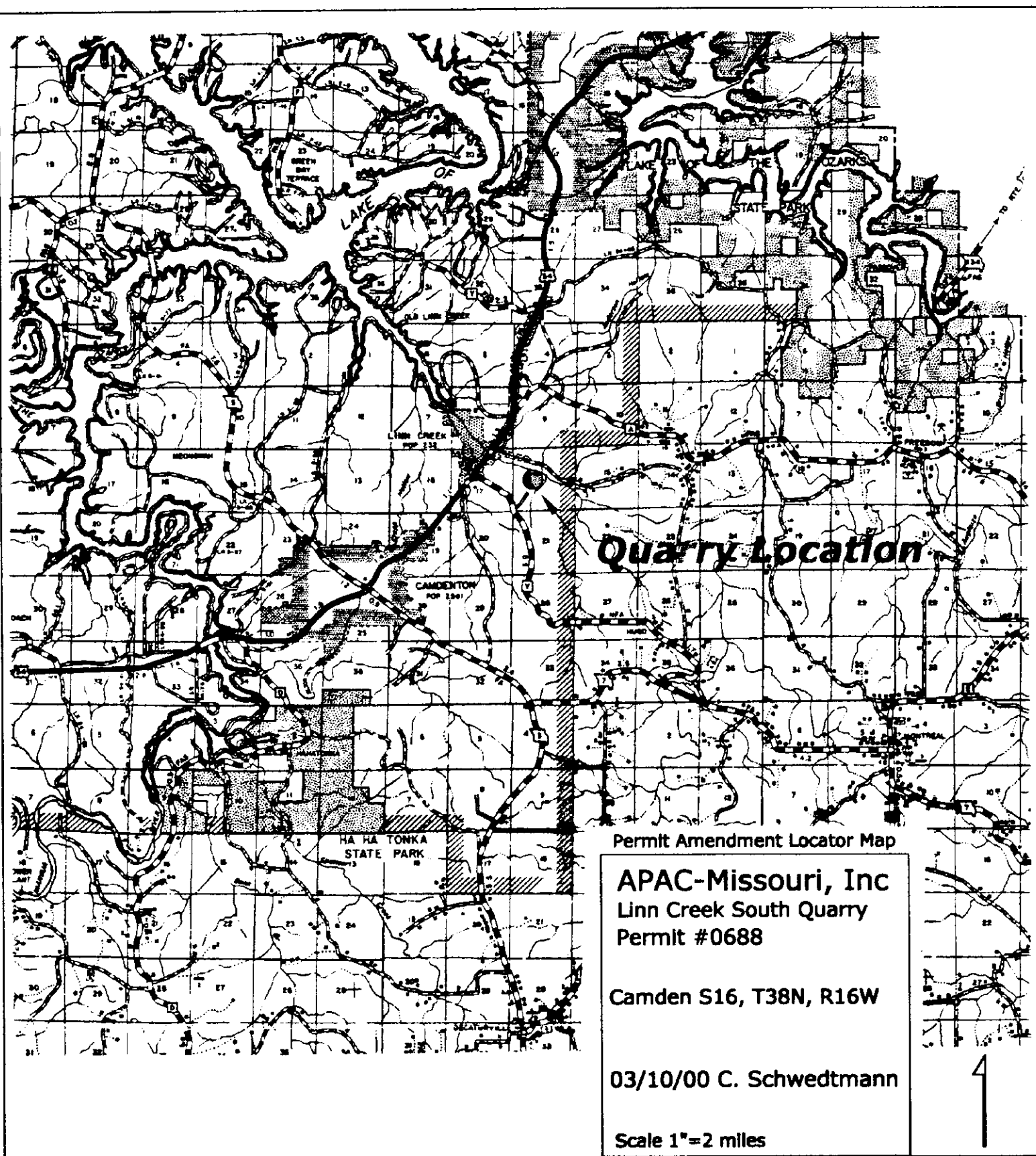
*P. Schuedt*

1/9/97

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APAC-Missouri, Inc. Central Missouri Division Permit Detail Map #0688 Miller County, Sec. 20 & 29, T40N, R15W Scale 1"= 470'	TITLE	River Quarry #14	DRAWN BY: Christopher R. Schwedtmann 8/16/01	REVISION:
				11/13/01



Permit Amendment Locator Map

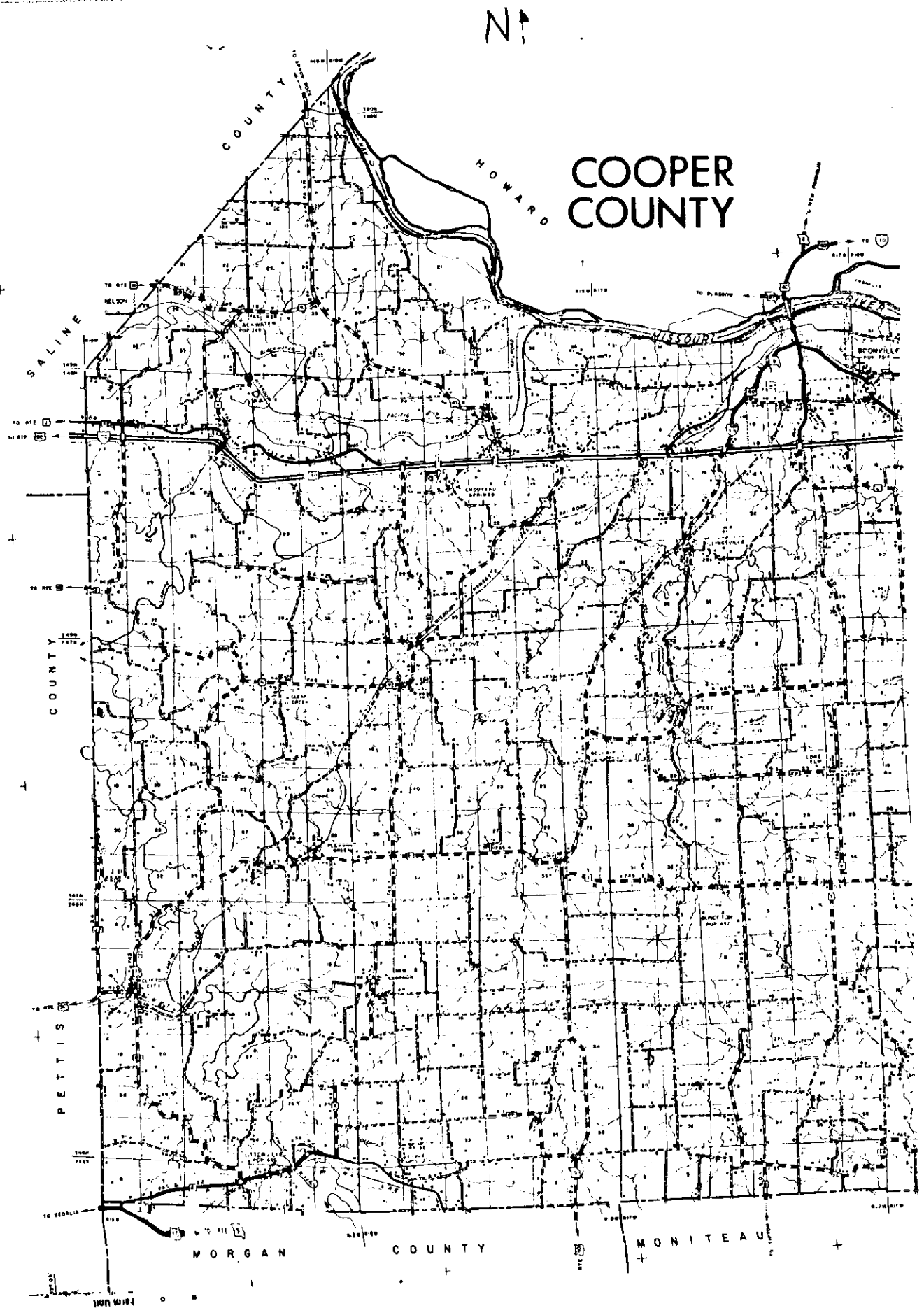
**APAC-Missouri, Inc**  
Linn Creek South Quarry  
Permit #0688

Camden S16, T38N, R16W

03/10/00 C. Schwedtmann

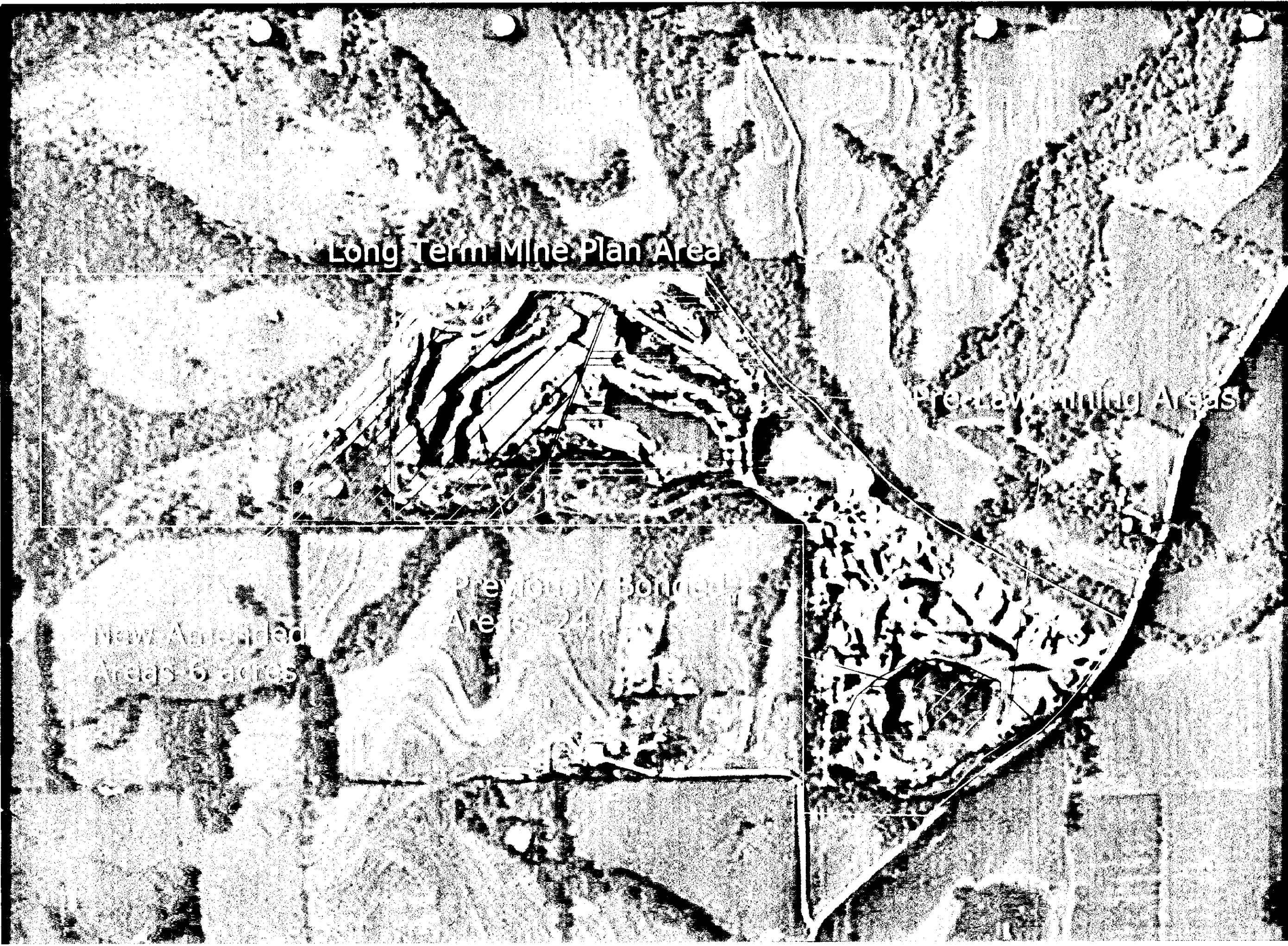
Scale 1"=2 miles


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Boonville Quarry location Map  
S22+23 T48N R17W  
repared by Jerry Hall





<b>APAC-Missouri, Inc.</b> Central Missouri Division Detail Map Permit #0688 Cooper County, Sec22 & 23, T48N, R17W Scale: 1"= 399.99999'	TITLE:  <b>Boonville Quarry</b>	REVISIONS:  
DRAWN BY: Christopher R. Schwedtmann	Drawn: 6/28/01 Amended 9/6/14	C.R.S.

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MIS. DIV.  
ADMINISTRATION

# Locator Map



APAC-MO, INC.

## NETTLETON QUARRY

T57N, SE ¼ Section 1, R27W  
T57N, NE ¼ Section 12, R27W  
T57N, SW ¼ Section 6, R26W  
T57N, NW ¼, Section 7, R26W

6/28/01 - 32, 15, 17

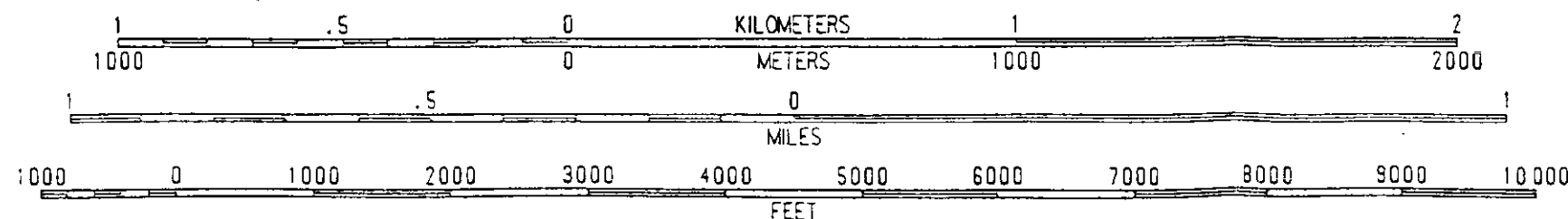
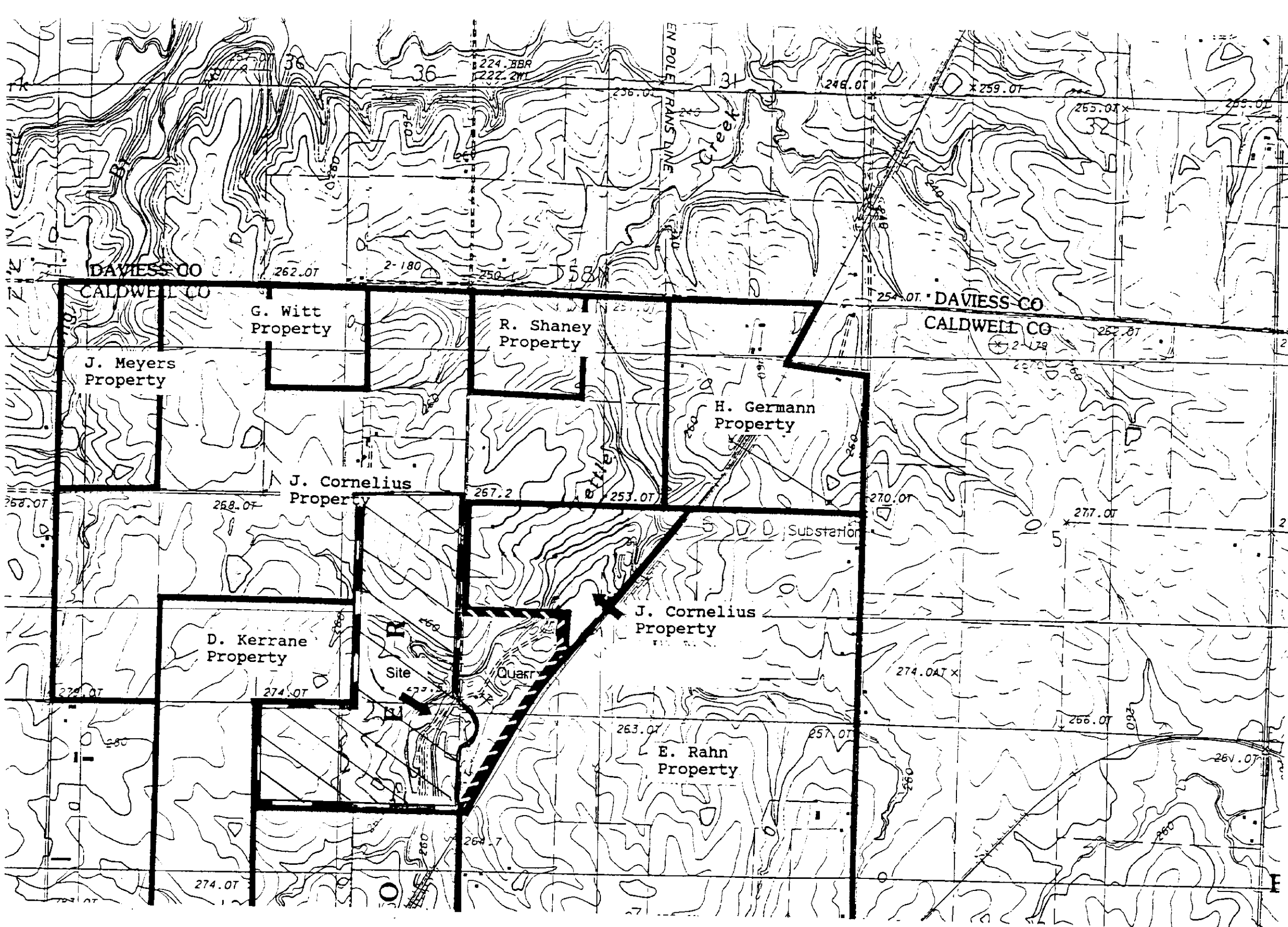
### Legend

-  Property line
-  MINE PLAN

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JUL 24 2001

MISSOURI LAND  
RECLAMATION COMMISSION



CONTOUR INTERVAL 4 METERS



C. SCHWEDTMANN

6/28/01





**APAC-Missouri, Inc.**

Central Missouri Division

Detail Map- Permit #0688

Caldwell County, Secs. 18&12, T57N, R27W  
6 & 7, T57N, R26W

Scale 1" = 425'

TITLE:

**Nettleton Quarry**

DRAWN BY:

Christopher R. Schwedtmann 6/28/01



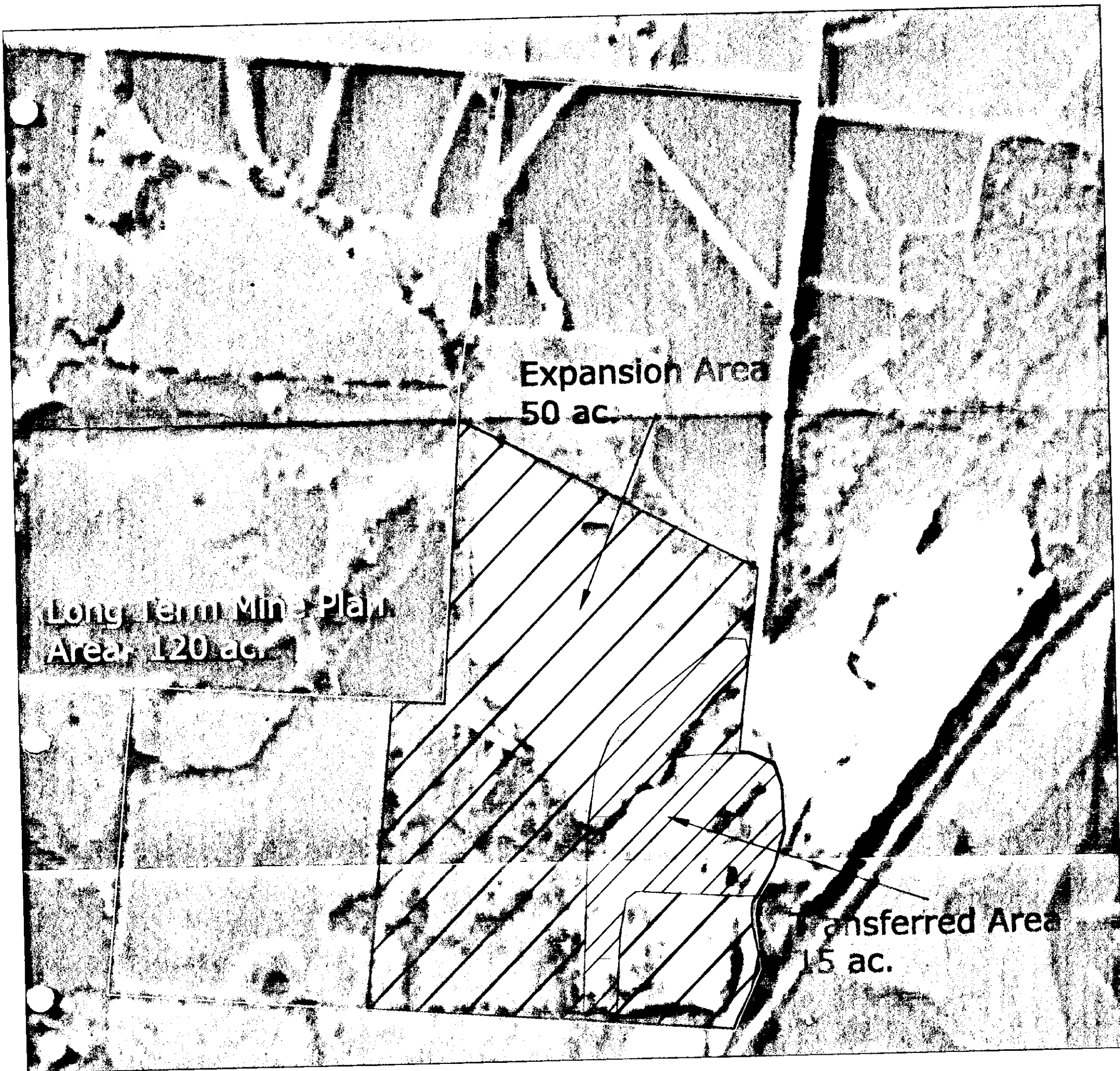
REVISIONS:

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MISSOURI LAND  
RECLAMATION COMMISSION

JUL 24 2001

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**APAC-Missouri, Inc.**  
 Central Missouri Division  
 Detail Map- Permit #0688  
 Caldwell County, Secs. 1&12, T57N, R27W  
 6 & 7, T57N, R26W  
 Scale 1" = 425'

TITLE:  
**Nettleton Quarry**

DRAWN BY:  
 Christopher R. Schwedtmann 6/28/01

	REVISIONS:
	Let's go!
	02/11/93

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 JUL 24 2001  
 MISSOURI LAND  
 RECLAMATION COMMISSION



4 N

LOCATOR MAP

Hall & Riley Quarries & Const. Co. Inc.  
Saline County  
240 Quarry  
S-2, T51N, R19W

R 19 W R 18 W

1"=4970'

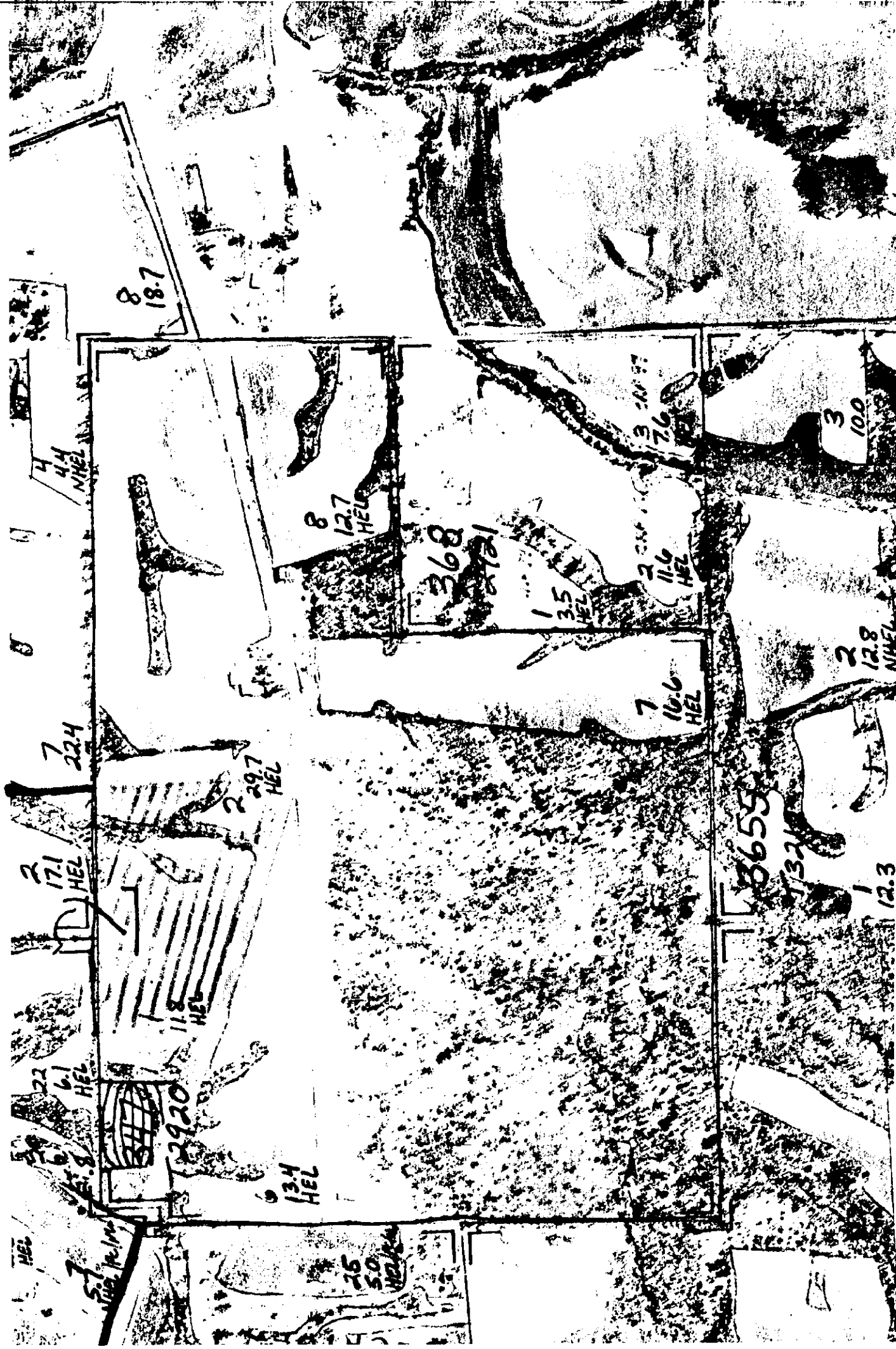
prepared by:

Jerry Hall

1 May 97

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MAY 12 1997  
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Bonded Area (15 Acres)  
long term mine area (25 Acres)

—Olivia Gotmer property line

—Wayne Brown property line

Highway 240

creek

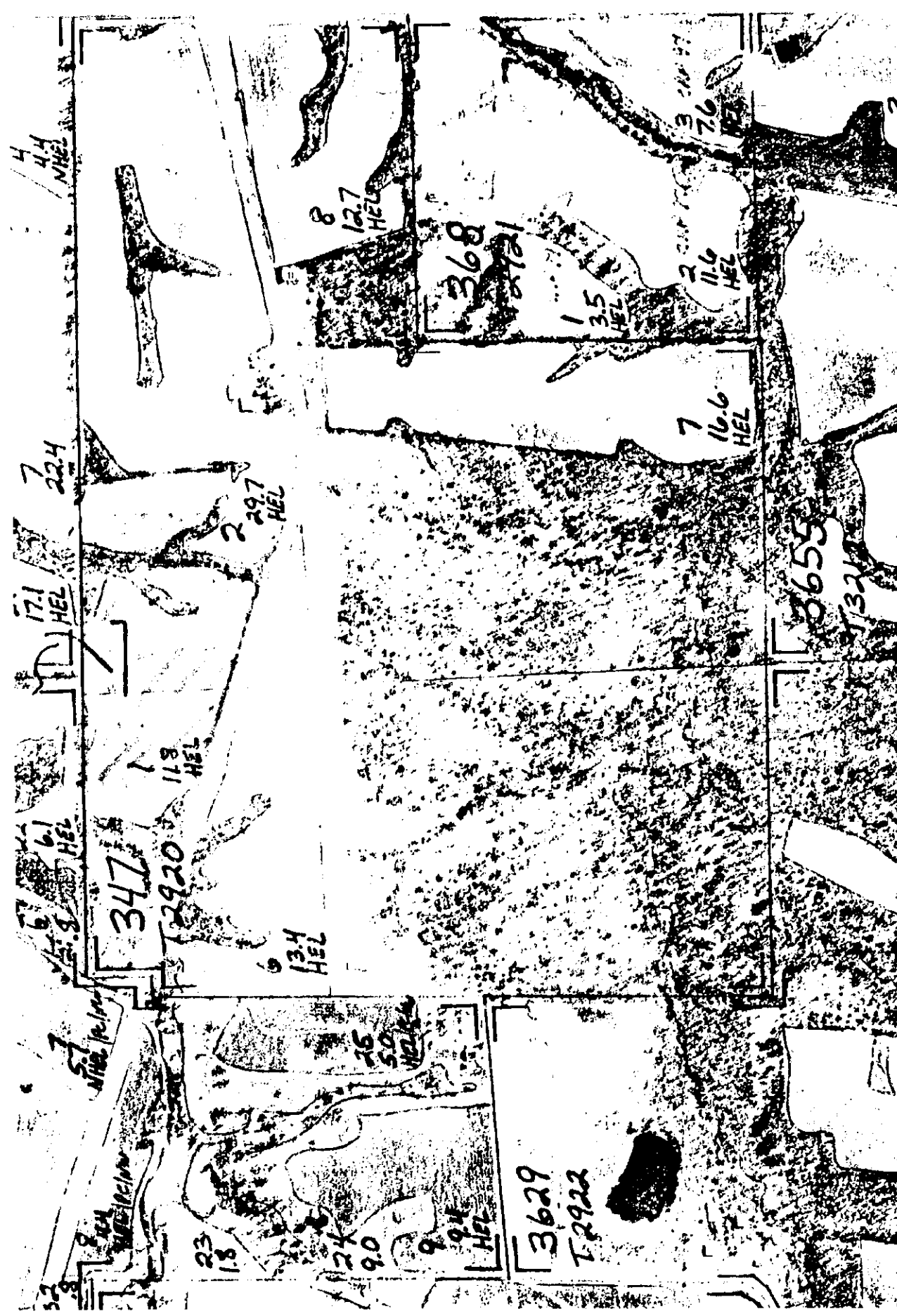
Existing quarry

map prepared by: Jerry Hall 5 May 97

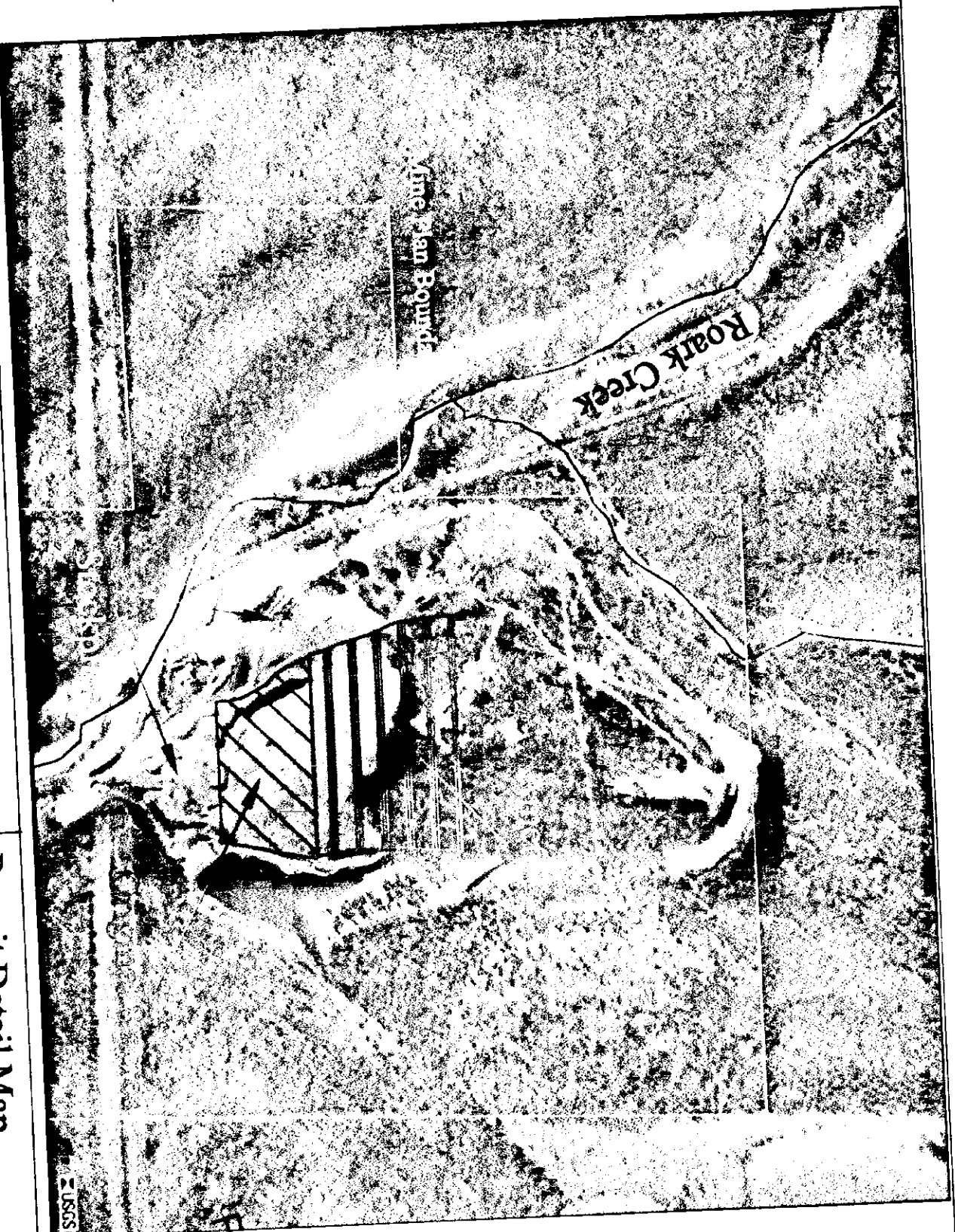
4N

Detailed Site Map:

Hall & Riley Quarries & Const. Co.  
Saline County, 240 Quarry  
S-2, T51N, R19W



Overburden Storage  
Lake, bonded  
Industrial  
Lake, long range



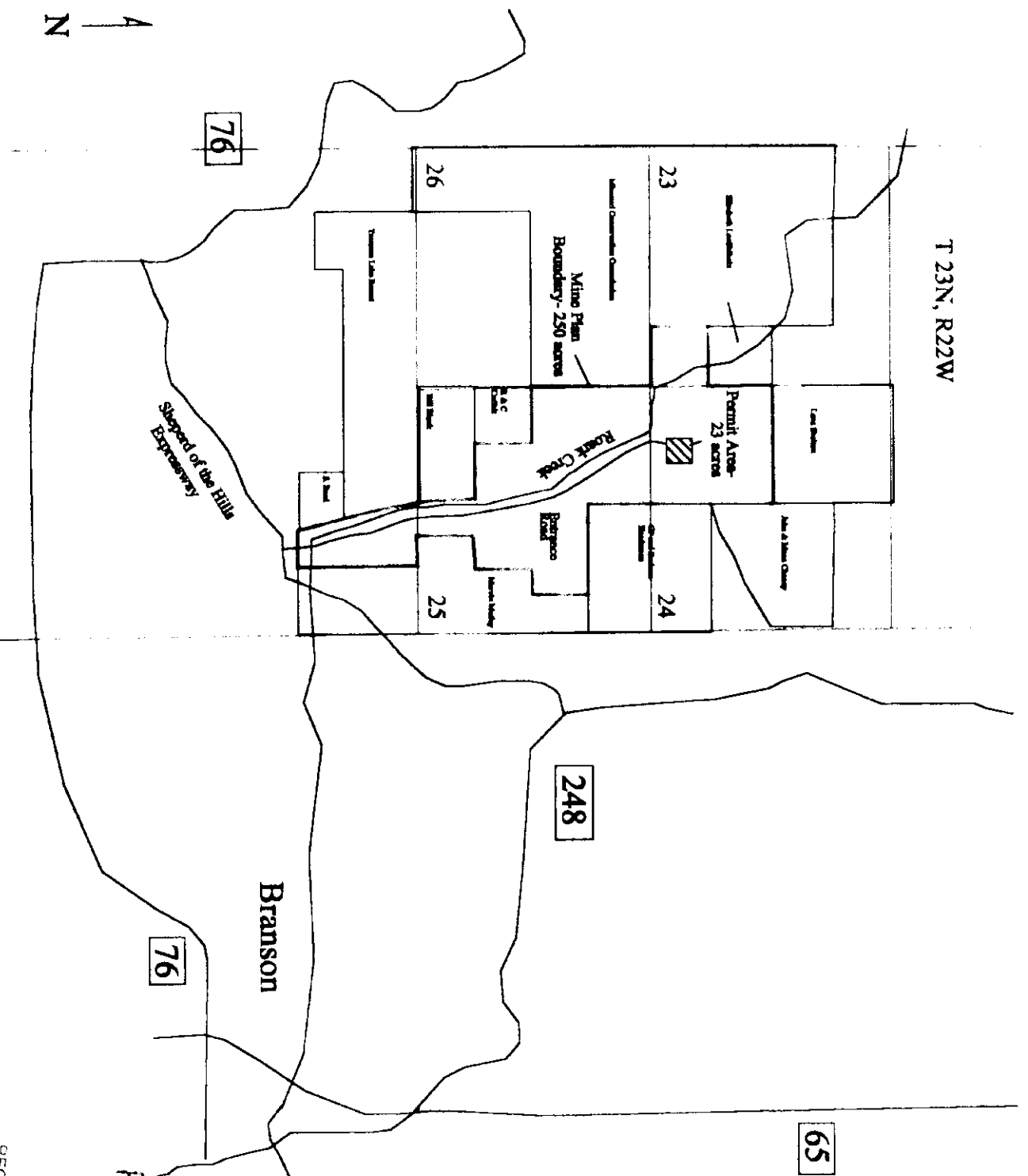
N

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APAC-Missouri, Inc.  
Roark Creek Quarry  
Permit #688

Taney County  
T23N, R22W  
Sec 24  
Scale: 1"= 650'

Permit Detail Map  
Prepared by: C. Schwedtmann  
Date: 5/4/99



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APAC-Missouri, Inc.  
Roark Creek Quarry  
Permit #688

Taney County  
Sec 24, T23N, R22W

Permit Locator Map  
Prepared by: C. Schwedtmann  
Date: 5/4/99

Permit Amendment Detail Map

APAC-Missouri, Inc.  
Busiek Quarry  
Christian County  
Sec. 15, T25N, R21W  
8/25/99 C. Schwedtmann  
Scale 1"=355'

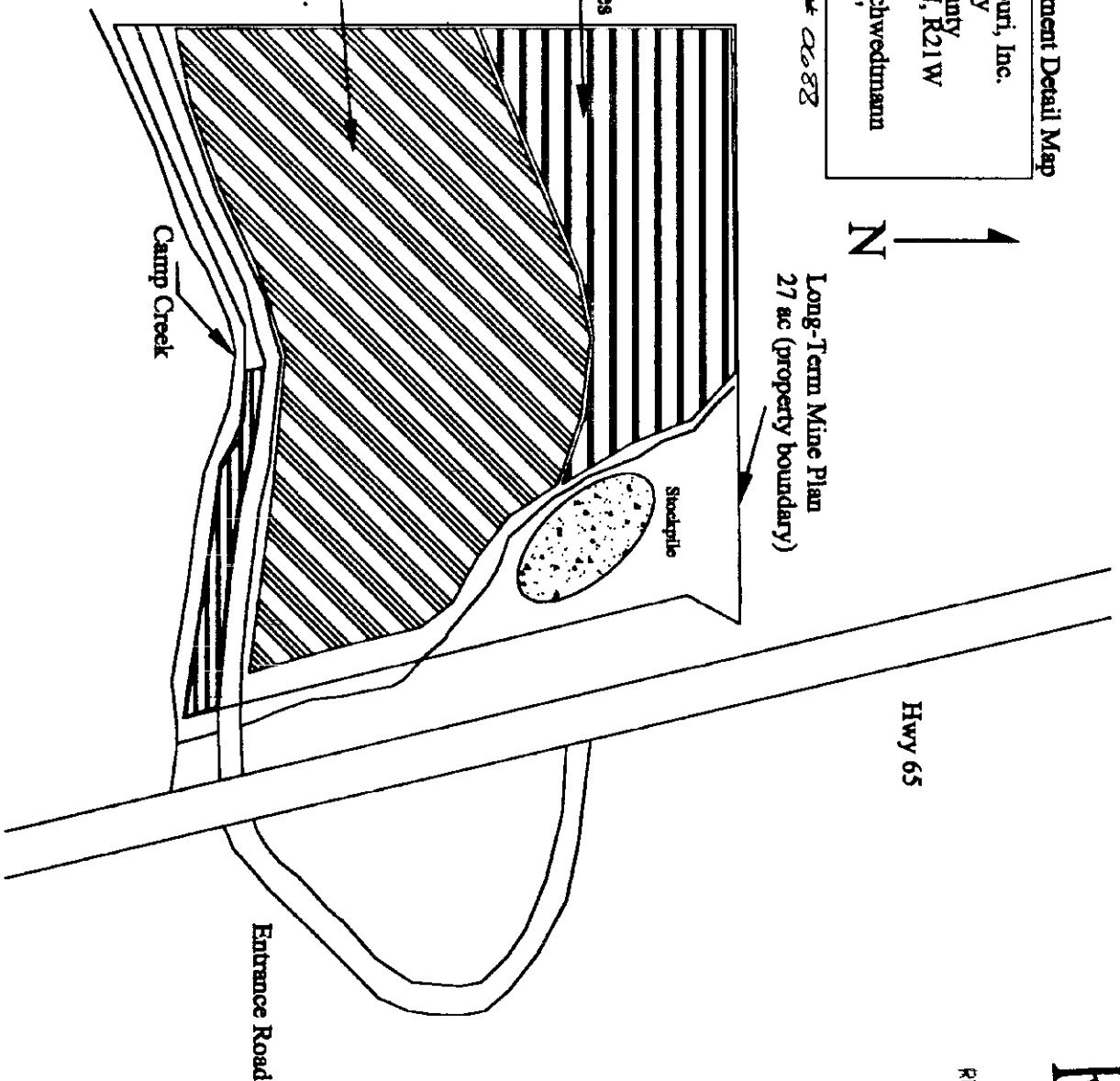
Permit # 0088

Long-Term Mine Plan  
27 ac (property boundary)

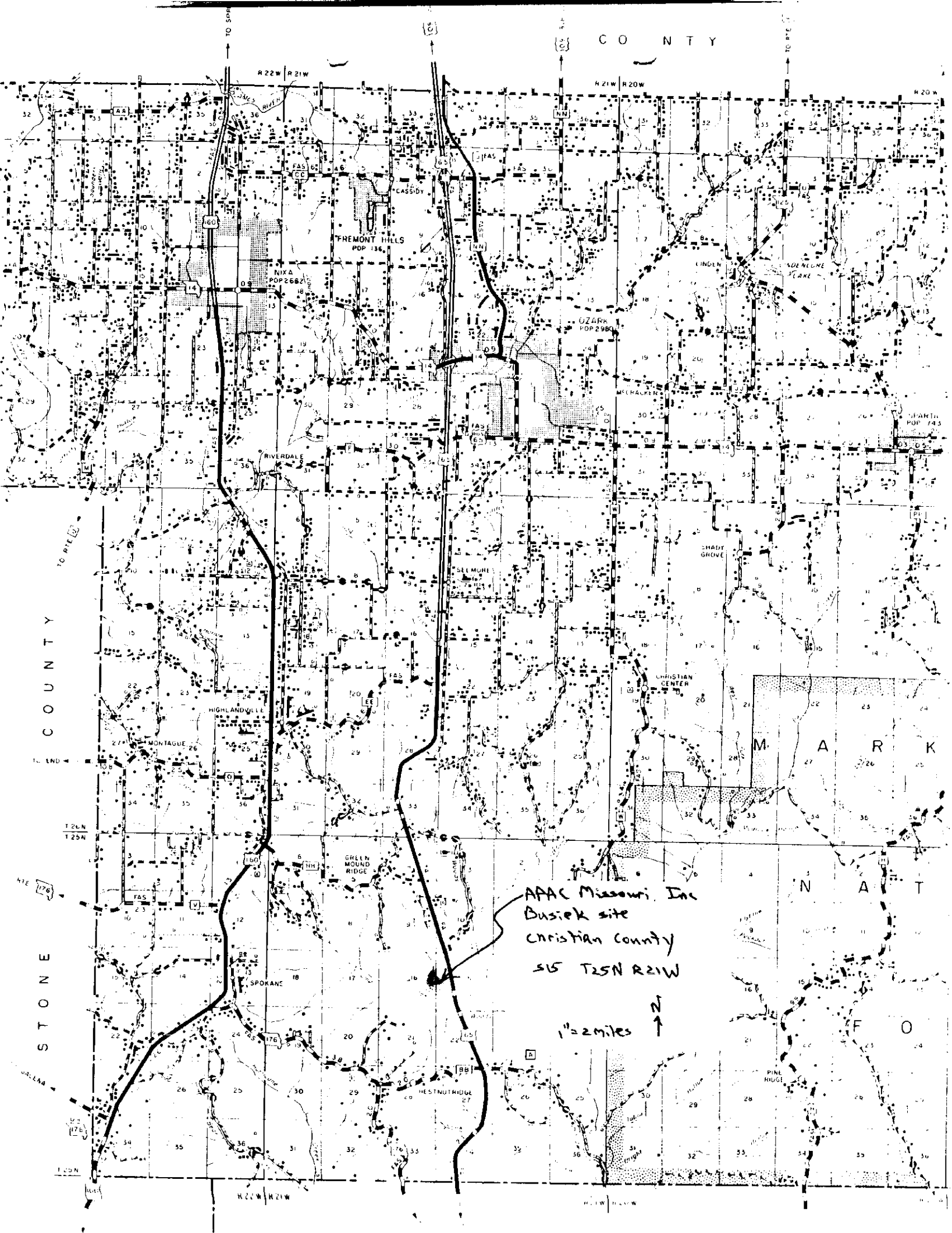


Additional  
Amended Acres  
7 ac.

Currently  
Bonded Area 18 ac.



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U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

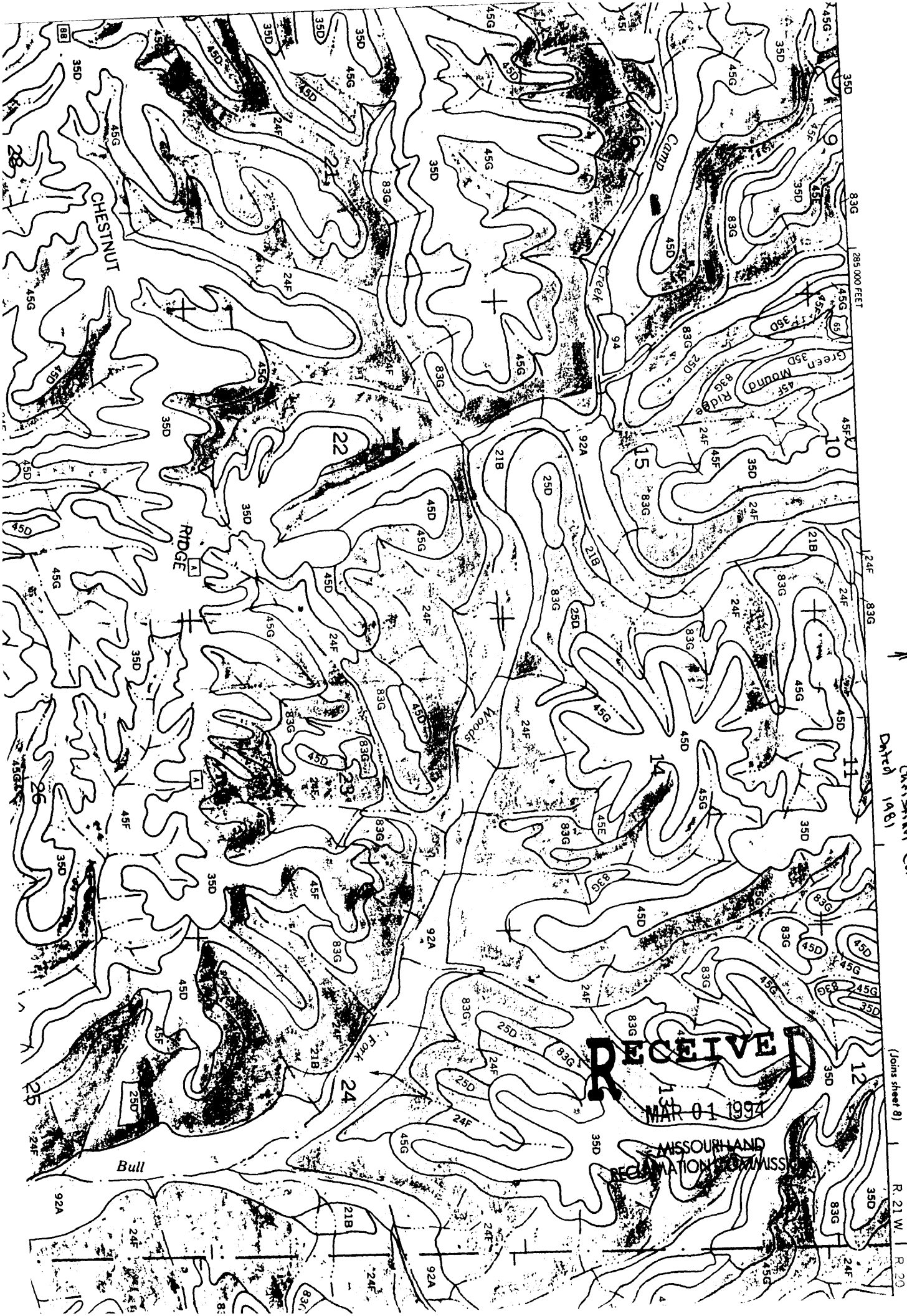
Masters Saksan Quarry - Busiek - Portable Plant # 3

sec. 15 T25N R21W  
Christian Co.

Dated 1961

(Joins sheet 8)

R. 21 W. R. 20



## SOIL LEGEND

Map symbols consist of numbers or a combination of numbers and a letter. The initial numbers represent the kind of soil. A capital letter following these numbers indicates the class of slope. Symbols without a slope letter are for miscellaneous areas.

SYMBOL	NAME
5C	Wilderness cherty silt loam, 2 to 9 percent slopes
6B	Creldon silt loam, 1 to 4 percent slopes
8B	Captina-Needley silt loams, 1 to 3 percent slopes
21B	Peridge silt loam, 2 to 5 percent slopes
22C	Ocie cherty silt loam, 2 to 9 percent slopes
23B	Bolivar fine sandy loam, 2 to 5 percent slopes
<del>24B</del>	<del>Gatewood-Ocie-Rock outcrop complex, 9 to 35 percent slopes</del>
25D	Ocie-Bardley-Gatewood complex, 2 to 14 percent slopes
27D	Bolivar stony fine sandy loam, 2 to 14 percent slopes
35D	Doniphan-Clarksville cherty silt loams, 2 to 14 percent slopes
43C	Goss cherty silt loam, 2 to 9 percent slopes
43D	Goss cherty silt loam, 9 to 14 percent slopes
44G	Goss-Gasconade complex, 2 to 50 percent slopes
45D	Clarksville very cherty silt loam, 5 to 14 percent slopes
45E	Clarksville very cherty silt loam, 14 to 20 percent slopes
45F	Clarksville very cherty silt loam, 20 to 35 percent slopes
45G	Clarksville very cherty silt loam, 35 to 60 percent slopes
55A	Huntington silt loam, 0 to 3 percent slopes
81B	Tonti silt loam, 2 to 5 percent slopes
<del>82G</del>	<del>Gasconade-Rock outcrop complex, 9 to 35 percent slopes</del>
92A	Cedargap-Secesh silt loams, 0 to 3 percent slopes
93A	Cedargap cherty silt loam, 0 to 3 percent slopes
94	Pits-Dumps complex

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inches. The surface layer is very friable and is easy to till.

Most areas of this soil have been cleared and are used for hay and pasture. A few areas are used for row crops or are in woodland. This soil is well suited to cool-season grasses, warm-season grasses, and some kinds of legumes. Growing well managed grasses and legumes for pasture is an effective means of controlling erosion. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soil in good condition.

This soil is moderately well suited to row crops and small grains. If this soil is used for intertilled row crops, the hazard of erosion is severe. Conservation tillage, winter cover crops, terraces and contour farming where the slopes are long enough and smooth enough, and grassed waterways help to prevent excessive soil loss. Returning crop residue or the regular addition of other organic material helps to improve fertility.

This soil is moderately well suited to trees. A few areas remain in native hardwoods. There are no limitations or hazards for planting or harvesting trees.

This soil is suitable for building site development and for onsite waste disposal if proper design and installation procedures are used. Concrete footings, foundations, and basement walls should be designed and constructed with adequate reinforcement steel and backfilled with sand or gravel to prevent damage caused by shrinking and swelling of the soil. Rock should be excavated or dwellings designed without basements. Mounding or raising the site of the absorption field with suitable fill material reduces the likelihood of polluting the ground water. The berms of lagoons should be built up with additional material to modify the depth to bedrock and the bottom sealed with slowly permeable material to overcome seepage. This soil is suitable for local roads and streets, but low strength, shrinking and swelling of the subsoil, and frost action are limitations. Adding crushed rock or other suitable base material helps to prevent damage caused by low strength. Grading the roads to shed water and providing adequate side ditches and culverts help to prevent damage caused by shrinking and swelling of the soil.

This Bolivar soil is in capability subclass IIIe and woodland suitability subclass 4o.

**24F—Gatewood-Ocie-Rock outcrop complex, 9 to 35 percent slopes.** This map unit consists of strongly sloping to steep, moderately well drained soils and Rock outcrop on side slopes of ridges on uplands. The percentage of Gatewood soil, Ocie soil, and Rock outcrop varies from place to place, but averages about 40 percent Gatewood soil, 30 percent Ocie soil, and 15 percent Rock outcrop. Individual areas are irregular in shape and range from about 5 acres to more than 1,100 acres. The moderately deep Gatewood soil and the Rock outcrop generally are on south- and west-facing

slopes. The deep Ocie soil is on north- and east-facing slopes.

Typically, the Gatewood soil has a surface layer of dark grayish brown, friable cherty silt loam about 2 inches thick. The subsurface layer is brown, friable very cherty silt loam about 4 inches thick. The subsoil is about 29 inches thick. It is strong brown, firm clay in the upper part; yellowish brown, very firm clay in the middle part; and multicolored, very firm channery clay in the lower part. Hard dolomite is at a depth of about 35 inches. In many places the clayey subsoil is red. Some areas are very steep.

Typically, the Ocie soil has a surface layer of brown, very friable cherty silt loam about 6 inches thick. The subsurface layer is yellowish brown, mottled, friable very cherty silt loam about 10 inches thick. The strong brown, mottled subsoil is about 32 inches thick. It is friable very cherty silty clay loam in the upper part, firm cherty silty clay in the middle part, and firm cherty clay in the lower part. Hard dolomite is at a depth of about 48 inches. Rock outcrop consists of exposures of dolomite bedrock and, in places, sandstone bedrock.

Included with the Gatewood and Ocie soils and Rock outcrop in mapping and making up about 15 percent of the map unit are areas of moderately deep, well drained Bardley soils; shallow, somewhat excessively drained Gasconade soils; shallow, well drained soils; and deep, well drained soils that are more than 60 inches thick over dolomite bedrock. The Bardley soils are on south- and west-facing slopes, and the Gasconade soils and other shallow soils are on rough breaks and knobs near the dolomite, limestone, and sandstone bedrock. The other deep soils are on north- and east-facing slopes.

Permeability is slow in this Gatewood soil. Surface runoff is rapid. The available water capacity is low. The subsoil is neutral to strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Permeability is moderate in the upper part of the profile and slow in the lower part in this Ocie soil. Surface runoff is rapid. The available water capacity is low. A perched water table is at a depth of 3 to 5 feet from December to April in most years. The subsoil is slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 40 and 60 inches.

Most areas of these soils are in poor quality to good quality woodland. Some areas are used for hay and pasture. These soils are unsuited to row crops because of steep slopes and Rock outcrop.

The Gatewood soil is poorly suited to trees, and the Ocie soil is moderately well suited to trees. Many areas remain in native hardwoods. Scrub hardwoods and

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## MISSOURI LAND

eastern redcedar are on the south- and west-facing slopes, and good quality hardwoods are on the north- and east-facing slopes. Erosion is a hazard on these soils. Careful design and construction of roads and skid trails are required to minimize the steepness and length of slope and the concentration of water. Steepness of slope limits the use of equipment, but this limitation can be overcome by placing roads and skid trails on the contour, or, where necessary, by yarding the logs uphill to logging roads and skid trails. Seeding disturbed areas may be needed after harvesting is completed. The use of tree planting equipment and site preparation equipment is restricted because of the chert content of the soils. Planting seedlings by hand or direct seeding may be necessary. Seedling mortality and the hazard of windthrow are limitations on the Gatewood soil, but these limitations can be overcome by planting stock of larger size than usual and by lighter, less intensive, and more frequent thinnings to reduce stand density.

These soils are moderately well suited to cool-season grasses, warm-season grasses, and some kinds of legumes. Using well managed grasses and legumes for pasture is an effective means of controlling erosion. Overgrazing or grazing when the soils are wet causes surface compaction and reduces the stand of grasses and legumes. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soils in good condition.

These soils generally are unsuitable for building site development and onsite waste disposal because of the high shrink-swell potential of the clayey subsoil, slope, depth to bedrock, and slow permeability.

These Gatewood and Ocie soils and Rock outcrop are in capability subclass VII<sub>s</sub>. The Gatewood soil is in woodland suitability subclass 5c, and the Ocie soil is in woodland suitability subclass 4f.

**25D—Ocie-Bardley-Gatewood complex, 2 to 14 percent slopes.** This map unit consists of deep, gently sloping to strongly sloping, moderately well drained Ocie soil; moderately deep, gently sloping to strongly sloping, well drained Bardley soil; and moderately deep, gently sloping to strongly sloping, moderately well drained Gatewood soil. These soils are on ridges on uplands. The percentage of Ocie soil, Bardley soil, and Gatewood soil varies from place to place, but averages about 45 percent Ocie soil, 30 percent Bardley soil, and 15 percent Gatewood soil. Individual areas are irregular in shape and range from about 5 acres to more than 200 acres.

Typically, the Ocie soil has a surface layer of pale brown silt loam about 6 inches thick. The subsoil is about 39 inches thick. It is light yellowish brown, friable cherty and very cherty silt loam in the upper part; yellowish brown, mottled, firm cherty clay in the middle part; and multicolored, firm clay in the lower part. Hard dolomite is at a depth of about 45 inches.

Typically, the Bardley soil has a surface layer of dark grayish brown, friable very cherty silt loam about 3 inches thick. The subsoil is about 19 inches thick. It is yellowish red, firm cherty silty clay in the upper part; dark red and yellowish red, very firm clay in the middle part; and dark red and brown, very firm cherty clay in the lower part. The substratum extends to a depth of about 26 inches. It is multicolored, very firm clay and is underlain by a thin layer of weathered dolomite over hard dolomite bedrock.

Typically, the Gatewood soil has a surface layer of very dark grayish brown, friable silt loam about 4 inches thick. The subsoil is about 30 inches thick. It is yellowish brown, mottled, firm very cherty silty clay in the upper part; yellowish brown, mottled, very firm silty clay and sandy clay in the middle part; and multicolored, firm clay in the lower part. Hard dolomite is at a depth of about 34 inches.

Included with these soils in mapping and making up about 10 percent of the map unit are areas of shallow, somewhat excessively drained Gasconade soils and other shallow, well drained soils and Rock outcrop. The Gasconade soils and the other shallow soils are near rough breaks and knobs. The Rock outcrop is on the rough breaks and knobs.

Permeability is moderate in the upper part of this Ocie soil and slow in the lower part. Surface runoff is medium to rapid. The available water capacity is low. A perched water table is at a depth of 3 to 5 feet from December to April in most years. The subsoil ranges from slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 40 and 60 inches.

Permeability is moderate in this Bardley soil. Surface runoff is medium to rapid. The available water capacity is very low. The subsoil ranges from slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Permeability is slow in this Gatewood soil. Surface runoff is medium to rapid. The available water capacity is low. The subsoil ranges from neutral to strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Most areas of these soils are in woodland. Some areas are used for hay and pasture. These soils generally are unsuited to row crops because of slope, the chert content of the soils, and Rock outcrop. The Ocie soil is moderately well suited to trees, but the Bardley and Gatewood soils are poorly suited to trees. Many areas remain in native hardwoods, together with some redcedar and native pine. Seedling mortality and



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Soil Survey

MISSOURI LAND  
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silty clay about 7 inches thick. Hard dolomite is at a depth of about 17 inches. In some places the subsoil is red. In other places the soil material is less than 4 inches thick over bedrock. A few areas are moderately sloping.

Rock outcrop consists of areas of exposed dolomite bedrock and areas of limestone and sandstone bedrock.

Included with the Gasconade soil and Rock outcrop in mapping and making up as much as 5 to 10 percent of the map unit are areas of well drained Bardley soils and moderately well drained Gatewood soils. These soils, which are in random pockets, are 20 to 40 inches thick over dolomite bedrock. Also included are some areas on ridgetops that are gently sloping.

Permeability is moderately slow in this Gasconade soil. Surface runoff is rapid. The available water capacity is very low. The subsoil ranges from mildly alkaline to slightly acid. The natural fertility is medium. The organic matter content is moderate. The shrink-swell potential is moderate. Rooting depth is restricted between depths of 4 and 20 inches by hard dolomite or limestone bedrock.

Most of the acreage is idle glades in woodland and marginal pasture. This soil is unsuited to cultivated row crops because of steep slopes, the cherty or flaggy content of the soil, shallow depth to bedrock, and Rock outcrop.

This soil is poorly suited to trees. Many areas remain in native warm-season grasses, native eastern redcedar, and scrub hardwoods. Trees are harvested mostly for posts. Erosion is a hazard on this soil. Careful design and construction of roads and skid trails are needed to minimize the steepness and length of slope and the concentration of water. Steepness of slope and a flaggy or cherty soil restrict the use of equipment, but these limitations can be minimized by placing roads and skid trails on the contour or, where necessary, by yarding the logs uphill to logging roads and skid trails. Seeding disturbed areas may be needed after harvesting is completed. Because the use of tree planting equipment and site preparation equipment is severely restricted, planting seedlings by hand or direct seeding may be necessary. Seedling mortality and windthrow can be reduced by planting stock of larger size than usual and by lighter, less intensive, and more frequent thinnings to reduce stand density.

This soil is poorly suited to cool-season grasses, warm-season grasses, and legumes. Growing well managed grasses and legumes for pasture, however, is an effective means of controlling erosion. Overgrazing causes surface compaction, excessive runoff, and poor tilth. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soil in good condition.

This soil generally is unsuitable for building site development and onsite waste disposal because of the shallow depth to bedrock, Rock outcrop, and steep slopes.



Figure 15.—Fescue hay in large round bales on Tonti silt loam, 2 to 5 percent slopes.

properly designed and constructed. This soil is suitable for local roads and streets, but low strength, seasonal wetness, and frost action are limitations. Adding crushed rock or other suitable base material helps to prevent damage caused by low strength. Grading the roads to shed water and providing adequate side ditches and culverts help to prevent damage caused by wetness and frost action.

This Tonti soil is in capability subclass IIIe and woodland suitability subclass 4d.

**83G—Gasconade-Rock outcrop complex, 9 to 65 percent slopes.** This map unit consists of shallow, strongly sloping to very steep, somewhat excessively drained Gasconade soil and dolomite or limestone Rock outcrop. It is on rough, broken side slopes and knobs of uplands. The percentage of Gasconade soil and Rock outcrop varies from place to place but averages about 65 percent Gasconade soil and 25 percent Rock outcrop. Individual areas are irregular in shape and range from about 10 acres to more than 400 acres. Dolomite and chert stones are on the surface in parts of this map unit. In other places sandstone bedrock is near the surface and on the surface.

Typically, the Gasconade soil has a surface layer of very dark brown, firm flaggy silty clay about 10 inches thick. The subsoil is very dark grayish brown, firm flaggy

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This Gasconade soil and Rock outcrop are in capability subclass VIIs. The Gasconade soil is in woodland suitability subclass 5d.

**92A—Cedargap-Secesh silt loams, 0 to 3 percent slopes.** This map unit consists of deep, nearly level, well drained soils on flood plains. The Cedargap soil is adjacent to the stream channel, and the Secesh soil is on a higher flood plain adjacent to the upland. Flooding is frequent on the Cedargap soil and occasional on the Secesh soil. This map unit is about 55 percent Cedargap soil and 30 percent Secesh soil. Individual areas are long and moderately wide to narrow. They are irregular in shape and range from about 10 acres to more than 400 acres.

Typically, the Cedargap soil has a surface layer of dark brown, very friable silt loam about 12 inches thick. The subsurface layer is dark brown, very friable and friable cherty and extremely cherty silt loam about 30 inches thick. The substratum extends to a depth of 65 inches or more. It is very dark brown, friable extremely cherty clay loam in the upper part and dark reddish brown, friable very cherty silty clay loam in the lower part. In places the surface layer is cherty.

Typically, the Secesh soil has a surface layer of dark brown, very friable silt loam about 10 inches thick. The subsoil extends to a depth of 65 inches or more. It is brown, friable silt loam in the upper part; reddish brown, friable silty clay loam in the middle part; and reddish brown, mottled, firm extremely cherty clay loam and multicolored, firm extremely cherty clay loam in the lower part. Some areas adjacent to the upland are gently sloping.

Included with these soils in mapping and making up about 15 percent of the map unit are areas of Huntington soils and other cherty soils. The Huntington soils are on wider areas of the flood plains and are free of chert. The other soils are near the stream channel on the flood plain and on foot slopes.

Permeability is moderately rapid in this Cedargap soil. Surface runoff is slow. The available water capacity is moderate. The substratum ranges from neutral to medium acid. The natural fertility is medium. The organic matter content is moderately low or moderate.

Permeability is moderate in this Secesh soil. Surface runoff is slow. The available water capacity is moderate. The subsoil ranges from very strongly acid to medium acid. The natural fertility is low. The organic matter content is moderately low.

Most areas of these soils are in hay and pasture. A few areas are used for row crops or are in woodland (fig. 16). These soils are well suited to cool-season grasses, warm-season grasses, and some kinds of legumes. Growing well managed grasses and legumes for pasture is an effective means of controlling scouring caused by flooding. Overgrazing or grazing when the soils are wet causes surface compaction and reduces the stand of



Figure 16.—Young walnut trees on Cedargap-Secesh silt loams, 0 to 3 percent slopes.

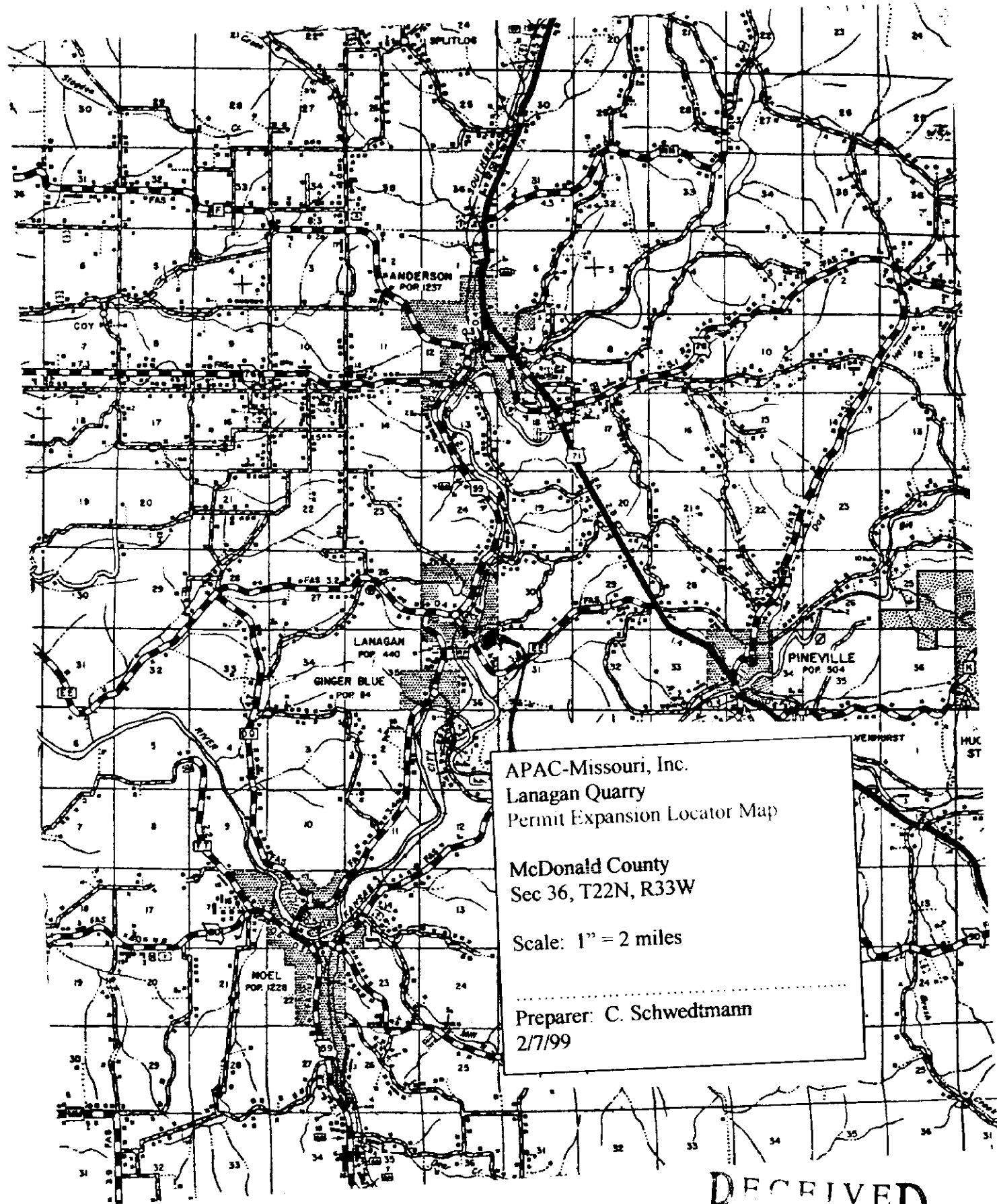
grasses and legumes. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soils in good condition.

These soils are well suited to row crops and small grains; however, scouring caused by flooding is a hazard. Conservation tillage, winter cover crops, and diversion terraces help to protect these soils from erosion, from scouring caused by flooding, and from excessive runoff from the uplands. Returning crop residue or the regular addition of other organic material helps to improve fertility, reduce crusting, and increase water infiltration.

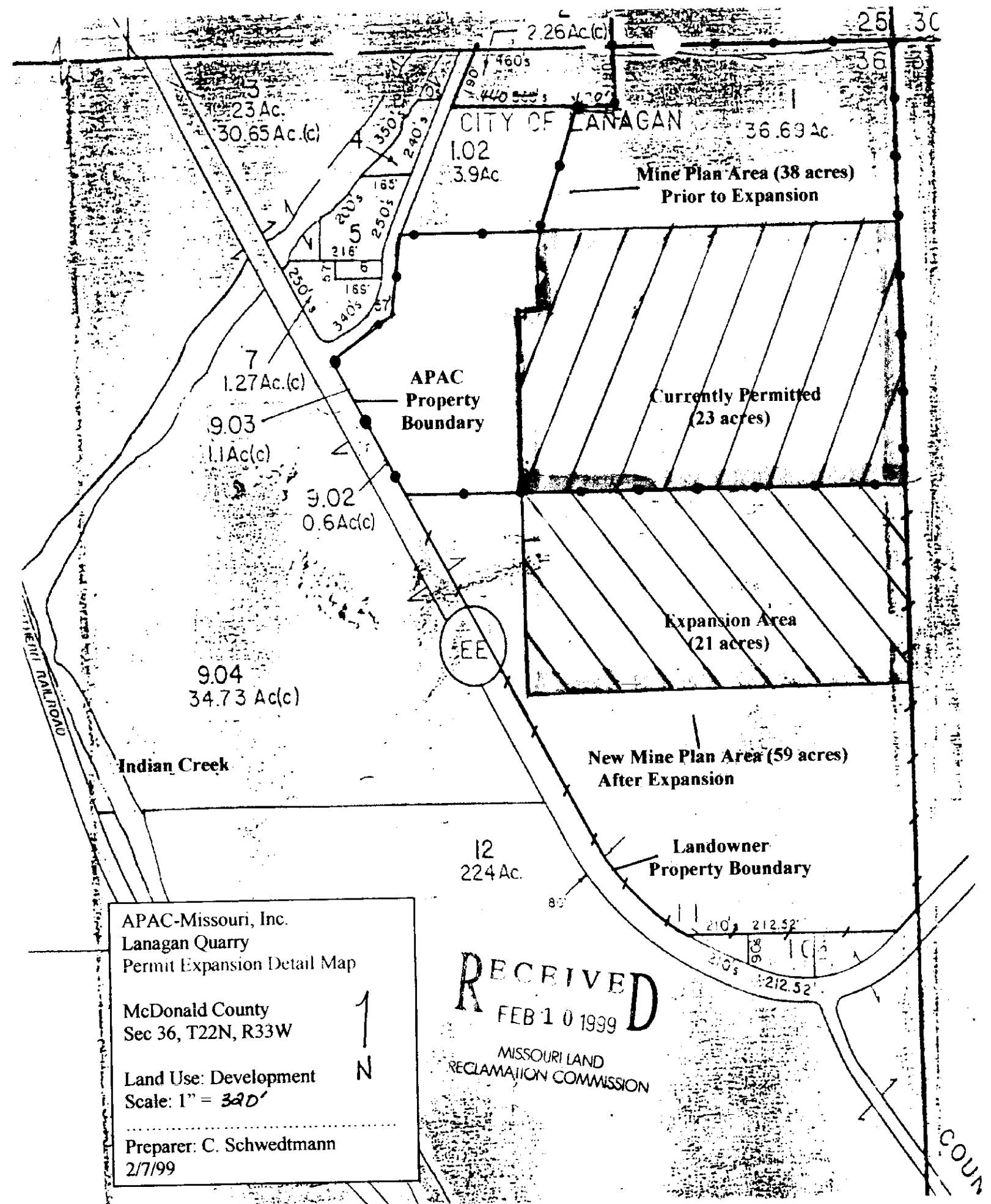
The Cedargap soil is well suited to trees, and the Secesh soil is moderately well suited to trees. A few areas remain in native hardwoods. Seedling mortality and plant competition are limitations on the Cedargap soil, but these limitations can be overcome by planting special stock of larger size than usual and by careful and thorough site preparation, including prescribed burning, spraying, or cutting. Release treatment may be necessary to ensure development.

These soils generally are unsuitable for building site development and onsite waste disposal because of frequent flooding on the Cedargap soil and occasional flooding on the Secesh soil.

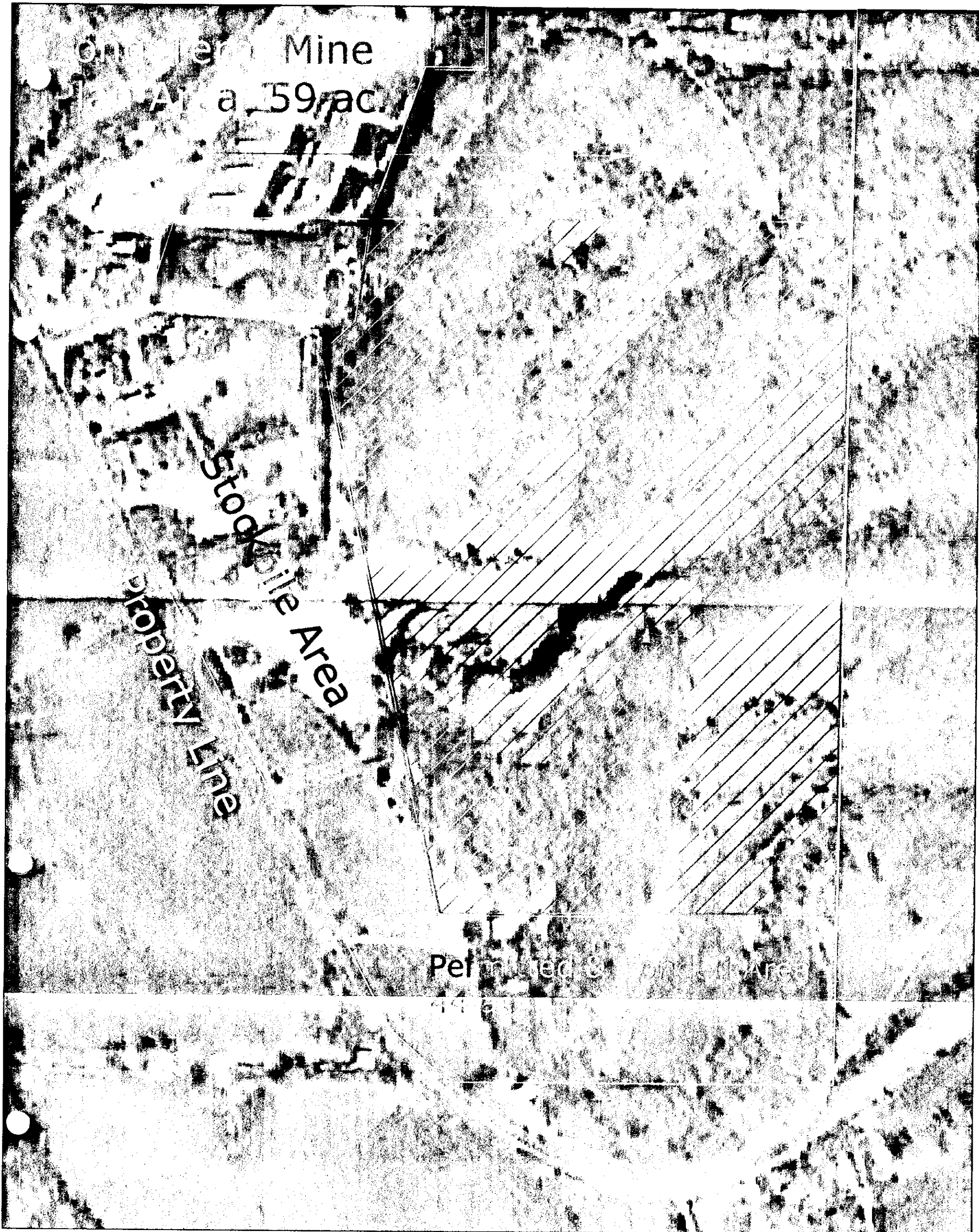
These Cedargap and Secesh soils are in capability subclass IIs. The Cedargap soil is in woodland suitability




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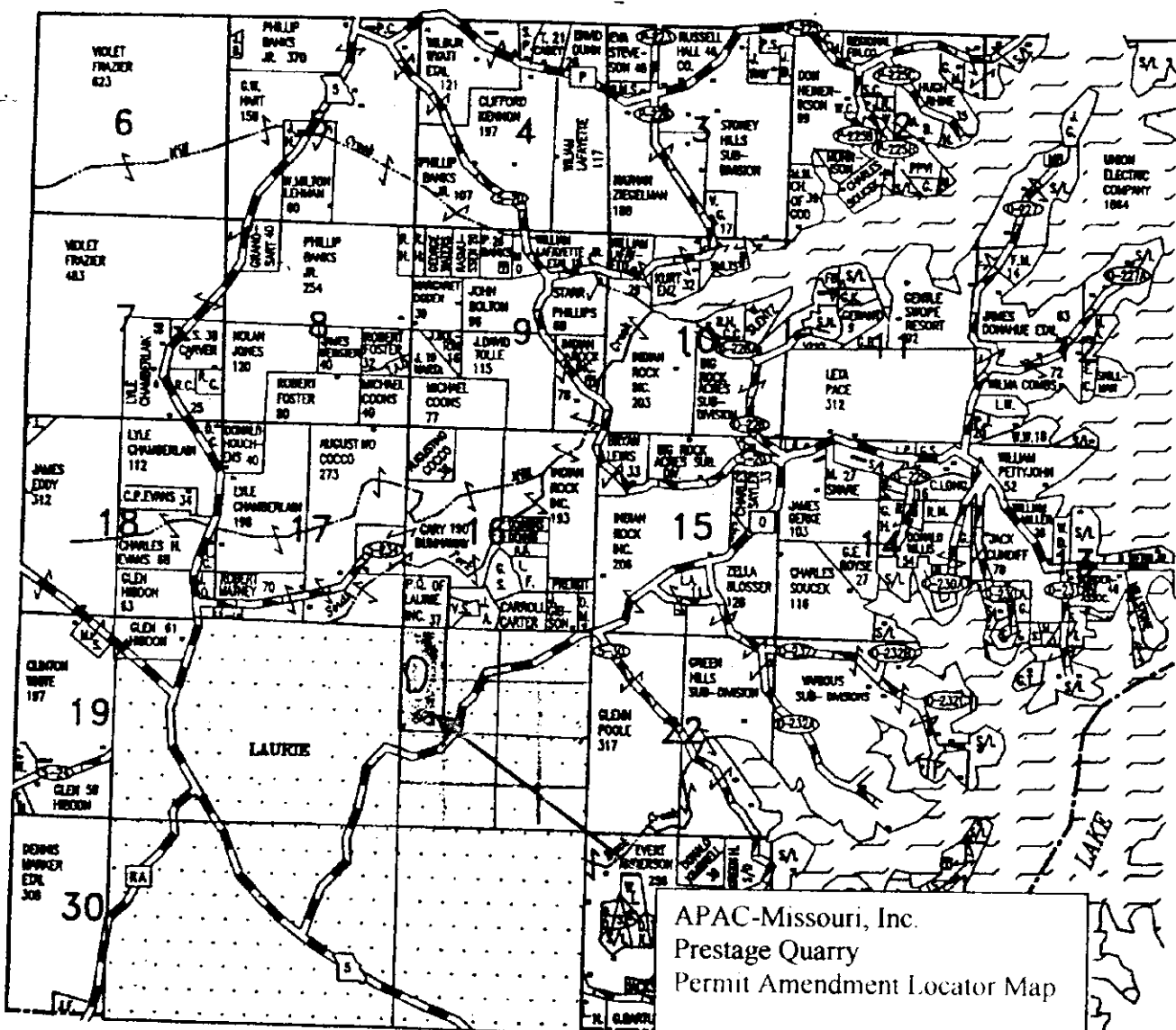




<b>APAC-Missouri, Inc.</b> LRP Permit #0688 Lanagan Quarry McDonald County, Sec 36, T22N, R33W 1" = 225'	TITLE		REVISIONS
	<b>Detail Map</b>		9/16/02
	DRAWN BY:		
	Christopher R. Schwedtmann		

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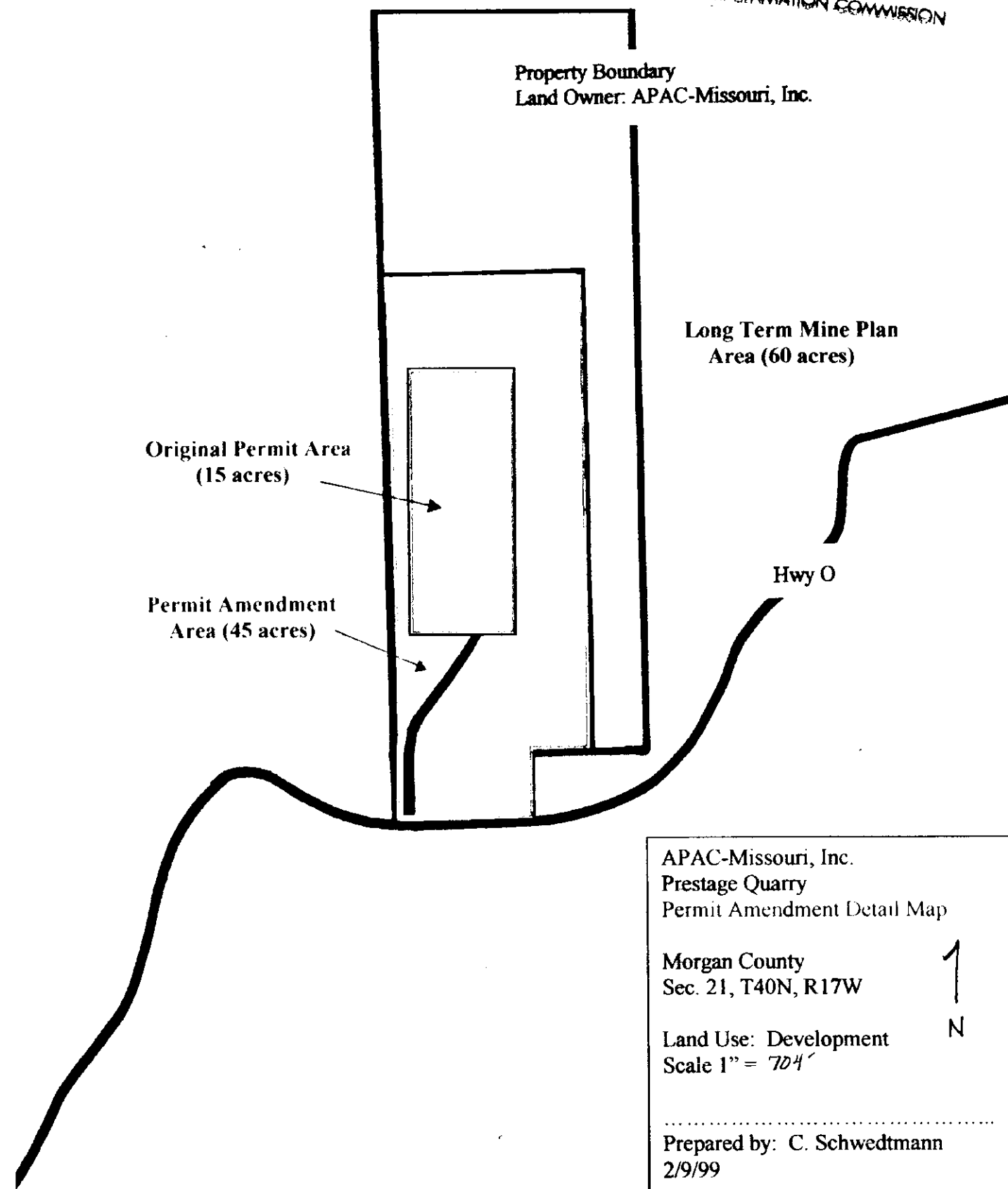


APAC-Missouri, Inc.  
Prestage Quarry  
Permit Amendment Locator Map

Morgan County  
Sec. 21, T40N, R17W

Scale 1" = 4450'

Prepared by: C. Schwedtmann  
2/9/99



Property Boundary  
Land Owner: APAC-Missouri, Inc.

Long Term Mine Plan  
Area (60 acres)

Original Permit Area  
(15 acres)

Permit Amendment  
Area (45 acres)

Hwy 0

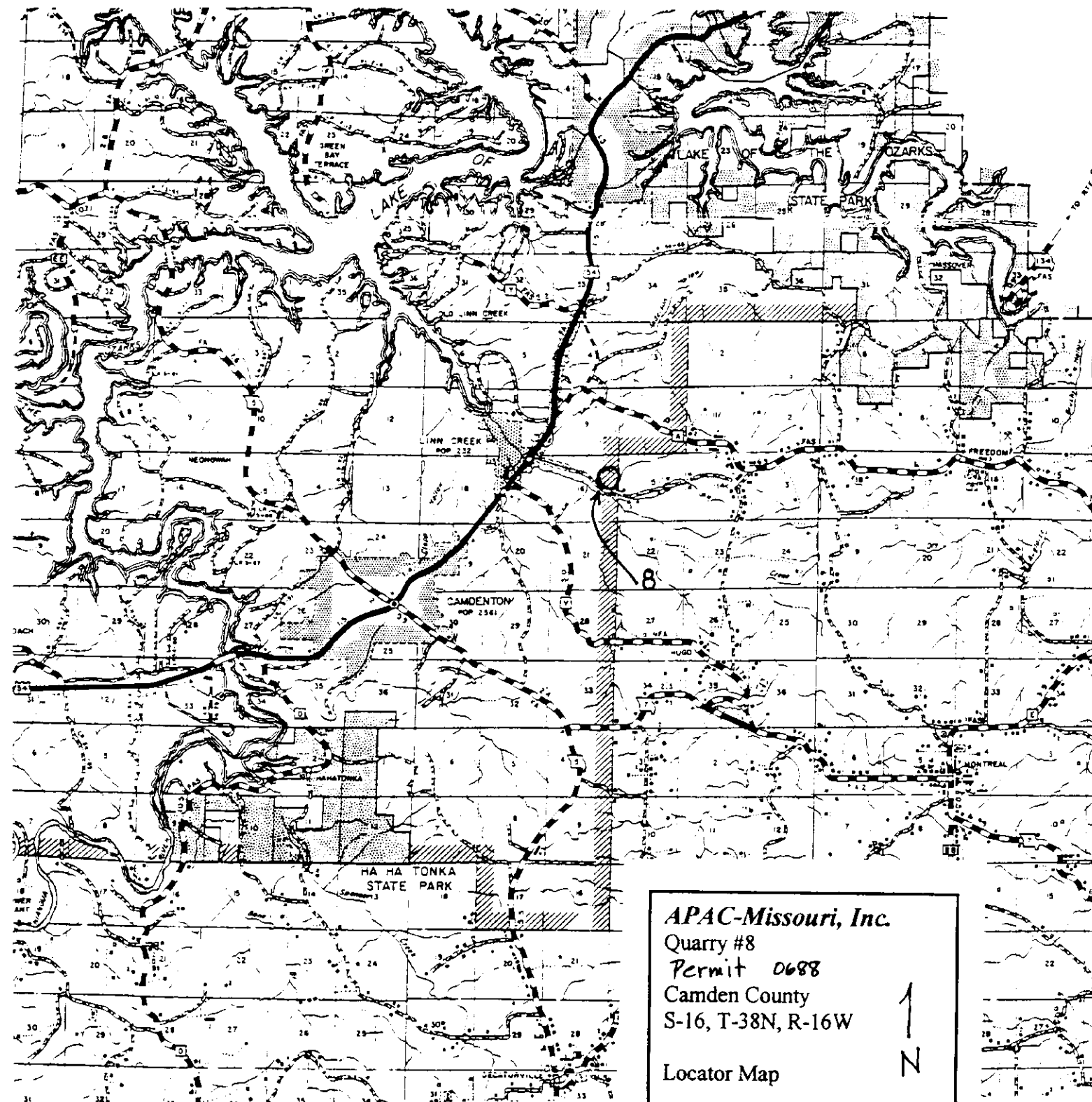
APAC-Missouri, Inc.  
Prestage Quarry  
Permit Amendment Detail Map

Morgan County  
Sec. 21, T40N, R17W

Land Use: Development  
Scale 1" = 704'

Prepared by: C. Schwedtmann  
2/9/99

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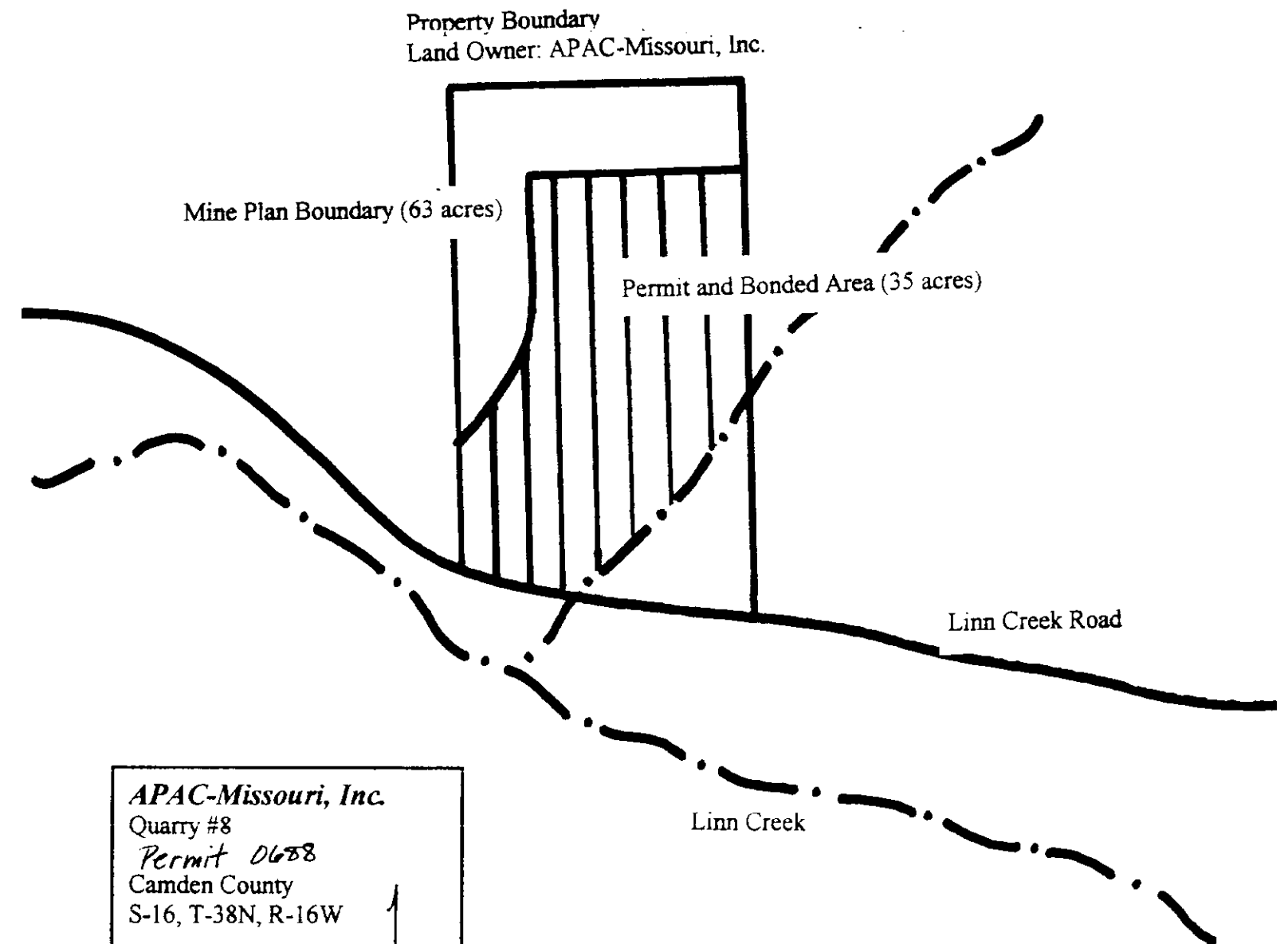
APAC-Missouri, Inc.  
Quarry #8  
Permit 0688  
Camden County  
S-16, T-38N, R-16W

Locator Map

Scale 1" = 2 miles

C. Schweedmann  
1/9/99

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Property Boundary  
Land Owner: APAC-Missouri, Inc.

Mine Plan Boundary (63 acres)

Permit and Bonded Area (35 acres)

Linn Creek Road

Linn Creek

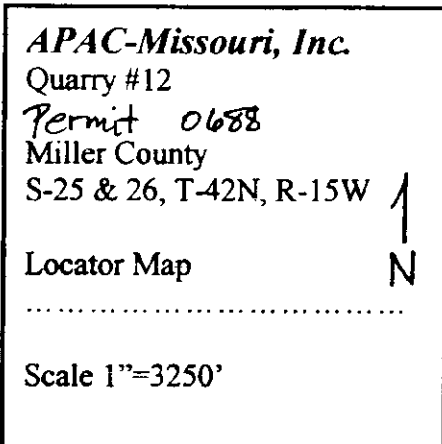
APAC-Missouri, Inc.  
Quarry #8  
Permit 0688  
Camden County  
S-16, T-38N, R-16W

Detail Map

Scale 1" = 660'

Land-Use: Development  
C. Schweedmann  
1/9/99

MISSOURI LAND  
RECLAMATION COMMISSION



C. Schweetmann.  
1/2/99

APAC-Missouri, Inc.

Quarry #12

Permit 0088

Miller County

S-25 & 26, T-42N, R-15W

Detail Map

Scale 1"=373'

Land-Use: Development

*P. Schneidman*  
1/9/99

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Hwy 54

5.1 AC(C)

Permit and Bonded Area (20 acres)

43.6 AC  
48.3 C

Mine Plan Boundary (95 acres)

Property Boundary  
Land Owner: APAC-Missouri, Inc.

SEE MAP  
SI-3-7-25-3

26  
17.1 AC  
4.0 C

25  
16.0

65.0 AC  
76.3 C

2.0 AC(C)

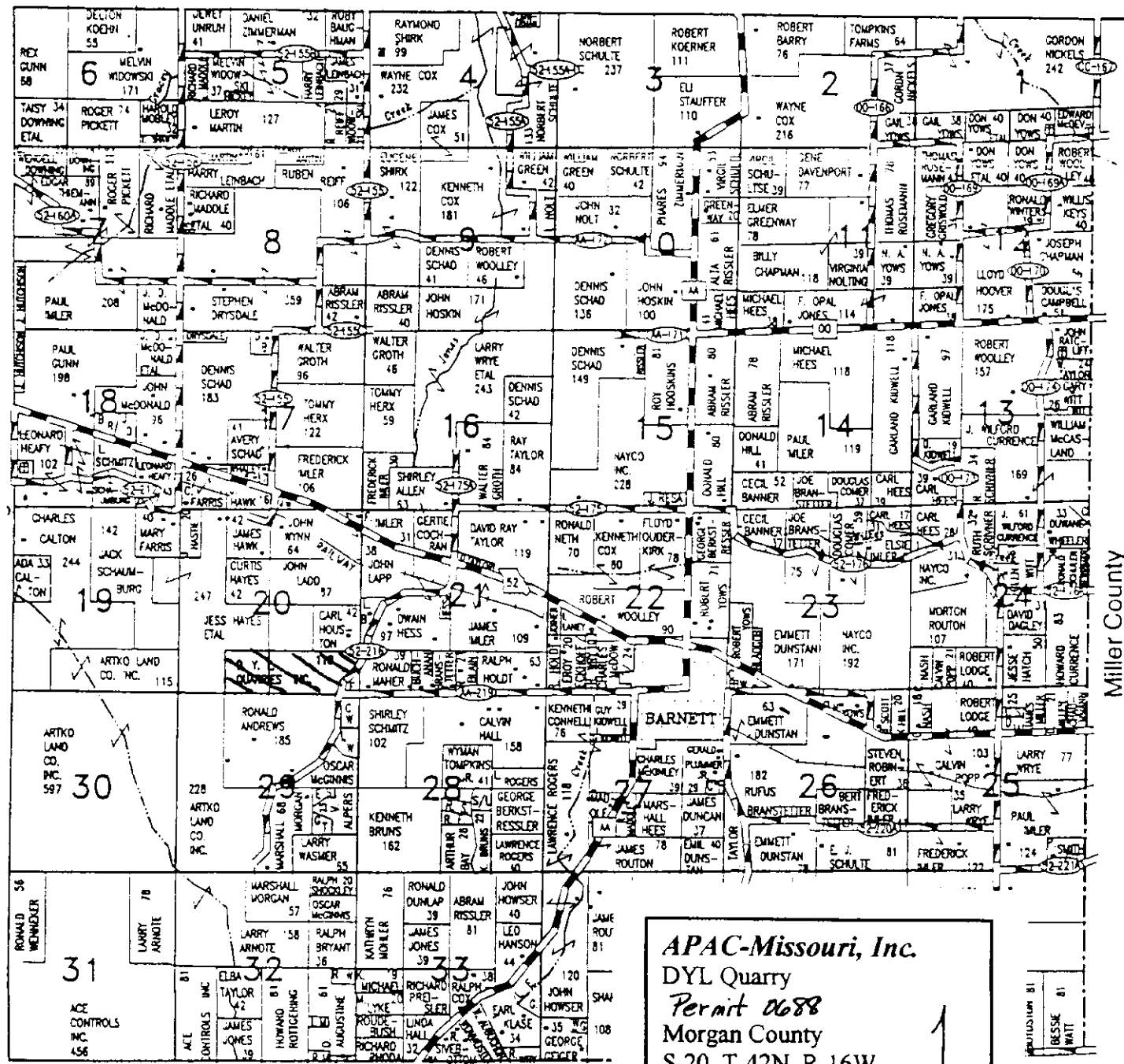
1.5 AC(C)

2.6 AC(C)

2.8 AC  
3.1 C



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MISSOURI LAND  
RECLAMATION COMMISSION



**APAC-Missouri, Inc.**  
DYL Quarry  
*Permit 0688*  
Morgan County  
S-20, T-42N, R-16W

### Locator Map

Scale 1"=4450'

C. Schwedtmann  
1/9/99

Route 52-216

**Property Boundary**  
**Land Owner: APAC-Missouri, Inc.**

**Mine Plan Boundary (113 acres)**

Route AA-219

Permit and Bonded Area (50 acres)

**APAC-Missouri, Inc.**  
DYL Quarry  
Permit 0688  
Morgan County  
S-20, T-42N, R-16W

### Detail Map

Scale 1"= 660'

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MISSOURI LAND  
DECLARATION COMMISSION

Land-Use: Development  
P. Scheuchtmann  
11/9/99